

MAHARAJA INSTITUTE OF TECHNOLOGY THANDAVAPURA

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VTU Question Papers

BE-I & II sem(Physics & Chemistry Cycle)

July/Aug-2022

2021 Scheme

Maharaja Institute of Technology Thandavapura

Just of NH-766,Mysore-ooty highway,Thandavapura(Vill & Post),Nanjangud Taluk,Mysore District-571302.

Sl.No.	Subject Code	Subject Title	Exam Date
1	21MAT11	Calculus and differential equations	July/Aug -2022
2	21PSP13	Problem Solving Through Programming	July/Aug -2022
3	21MAT21	Advanced calculus and Numerical methods	July/Aug -2022
4	21PHY22	Engineering Physics	July/Aug -2022
5	21CHE22	Engineering Chemistry	July/Aug -2022
6	21PSP23	Problem Solving Through Programming	July/Aug-2022
7	21ELE23	Basic Electrical Engineering	July/Aug -2022
8	21ELN24	Basic Electronics and Communication Engineering	July/Aug -2022
9	21CIV24	Elements of Civil Engineering and Mechanics	July/Aug -2022
10	21EME25	Elements of Mechanical Engineering	July/Aug -2022
11	21EGH28	Professional Writing Skills in English	July/Aug-2022
12	21IDT29	Innovation and Design Thinking	July/Aug-2022
13	21SFH29	Scientific Foundations of Health	July/Aug-2022



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First Semester B.E. Degree Examination, July/August 2022 Calculus and Differential Equations

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1 a. With usual notation prove that
$$\tan \phi = r \left(\frac{d\theta}{dr} \right)$$
. (06 Marks)

b. Find the angle between the curves
$$r = 2 \sin \theta$$
 and $r = 2 \cos \theta$. (07 Marks)

c. Find the radius of curvature of the curve
$$\sqrt{x} + \sqrt{y} = \sqrt{a}$$
 at the point $\left(\frac{a}{4}, \frac{a}{4}\right)$. (07 Marks)

OR

2 a. With usual notation prove that

$$\rho = \frac{(1+y_1^2)^{\frac{3}{2}}}{y_2}.$$
 (06 Marks)

- b. Find the radius of curvature for the curve $r^n = a^n \sin n \theta$.
- (07 Marks)
- c. Show that $r = 4\sec^2 \theta/2$ and $r = 9\csc^2 \theta/2$ the pair of curves cut orthogonally. (07 Marks)

Module-2

3 a. Expand Y = log (1 + sin x) upto the term contains x^4 by Maclaurin's series expansion. (06 Marks)

b. If
$$u = f(2x - 3y, 3y - 4z, 4z - 2x)$$
, show that $6u_x + 4u_y + 3u_z = 0$. (07 Marks)

c. Show that the function
$$f(x, y) = x^3 + y^3 - 63x - 63y + 12xy$$
 is maximum at $(-7, -7)$. (07 Marks)

4 a. Evaluate
$$\underset{x\to 0}{\text{Lt}}(\cos x)^{\frac{1}{x^2}}$$
. (06 Marks)

b. If
$$u = x^3 + y^3$$
 where $x = a \cos t$, $y = b \sin t$ find $\frac{dU}{dt}$. (07 Marks)

c. If
$$U = e^x \cos y$$
, $V = e^x \sin y$. Find $\frac{\partial(u, v)}{\partial(x, y)}$. (07 Marks)

5 a. Solve for
$$P : xp^2 + (y - x) p - y = 0$$
; where $p = \frac{dy}{dx}$. (06 Marks)

b. Show that the family of parabolas
$$y^2 = 4a(x + a)$$
 is self orthogonal. (07 Marks)

c. Solve
$$(x^2 + y^2 + x) dx + xy dy = 0$$
. (07 Marks)

OR

6 a. Solve:
$$[1 + \log x + \log y] dx + (1 + \frac{x}{y}) dy = 0$$
. (06 Marks)

b. Solve:
$$p = \sin(y - xp)$$
. Also find its singular solutions. (07 Marks)

c. A body originally at 80°C cools down to 60°C in 20 minutes, the temperature of the air being 40°C. What will be the temperature of the body after 40 minutes from the original?

(07 Marks)

Module-4

7 a. Solve:
$$\frac{d^4y}{dx^4} - 4\frac{d^2y}{dx^2} + 4y = 0$$
. (06 Marks)

b. Solve:
$$(D^2 + 4)y = e^x + \cos 2x$$
. (07 Marks)

c. Using Variation of parameter method, solve

$$\frac{d^2y}{dx^2} - 2\frac{dy}{dx} = e^x \sin x. \tag{07 Marks}$$

8 a. Solve:
$$(D^2 - 1)y = 1 + x + x^2$$
. (06 Marks)

b. Solve:
$$(D^2 + D + 1)y = (1 - e^x)$$
. (07 Marks)

c. Solve:
$$(1+x)^2 \frac{dy^2}{dx^2} + (1+x)\frac{dy}{dx} + y = 2\sin[\log(1+x)]$$
. (07 Marks)

9 a. Find the rank of the matrix:

$\lceil -1 \rceil$	2	3	-2			
2	-5	1	2		(06 Marks	- J
3	-8	5	2	0.1	(00 Marks	'n
_ 5	-12	-1	6	-0"		

b. Find for what values of λ and μ the system of linear equations :

$$x + y + z = 6$$
$$x + 2y + 5z = 6$$

$$x + 2y + 5z = 10$$
$$2x + 3y + \lambda z = \mu$$

has

- i) a unique solution
- ii) no solution
- iii) Infinitely many solutions.

(07 Marks)

c. Solve the system of equations:

$$10x + 2y + z = 9$$

$$2x + 20y - 2z = -44$$

$$-2x + 3y + 10z = 22$$

by Gauss Seidel method taking (0, 0, 0) as an initial approximate root (carry out 3 iteration). (07 Marks)

OR

10 a. Find the rank of the matrix:

b. Solve the system of equations by Gauss – Jordan method,

$$x + y + z = 9$$

$$x - 2y + 3z = 8$$

$$2x + y - z = 3$$
. (07 Marks)

c. Using Rayleigh power method find the largest eigen value and the corresponding eigen vector of the matrix

$$A = \begin{bmatrix} 6 & -2 & 2 \\ -2 & 3 & 1 \\ 2 & -1 & 3 \end{bmatrix}$$

by taking $(1, 1, 1)^{T}$ as initial eigen vector (carryout 5 iterations). (07 Marks)

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First/Second Semester B.E. Degree Examination, July/August 2022 **Problem Solving Through Programming**

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- a. Discuss various generations of computers, highlighting features of each one. (10 Marks)
 - b. With the basic structure of a C program and explain with an example.

(10 Marks)

OR

2 a. Differentiate primary memory and secondary memory.

- (05 Marks)
- b. List and explain logical operators and analyze the following code and write the output with proper reasoning.

```
#include <stdio.h>
void main()
{
    printf("7 && 0 = 0)
```

printf("7 && 0 = % d\n", 7 && 0); printf("7 | | 0 = % d\n", 7 || 0);

printf("!0 = %d", !0);

(10 Marks)

c. Discuss basic data types supported in 'C'

(05 Marks)

Module-2

3 a. Write a C program to find roots of a quadratic equation.

- (10 Marks)
- b. Write the syntax of switch statement and explain with a suitable example.

(10 Marks)

OR

- 4 a. Write the syntax of while and do-while statements. Also, list differences between them with example. (06 Marks)
 - b. Write a C program to print whether a given integer number is palindrome or not. (07 Marks)
 - c. Discuss break and continue statements with suitable examples.

(07 Marks)

Module-3

- 5 a. Define arrays and discuss various ways of initializing 1D array with examples. (10 Marks)
 - b. Write a C program to sort given integers in ascending order and using selection sort and trace by taking 5 integers. (10 Marks)

OR

- 6 a. Define strings and explain how they are declared and initialized.
- (06 Marks)
- b. Write a C program to search for a given number in an array using binary search technique.
 - (08 Marks)

c. Explain any 6 string manipulation functions with example.

- 7 a. What is a user defined function? Discuss different categories of user defined functions with appropriate example for each. (10 Marks)
 - b. Write a recursive function to find factorial of a number. (06 Marks)
 - c. Discuss storage class specifiers. (04 Marks)

OR

- 8 a. Define recursion. Write a recursive program to find nth Fibonacci number. (08 Marks)
 - b. Write a program to find GCD and LCM of 2 numbers. (08 Marks)
 - c. What are the advantages of writing user defined functions? (04 Marks)

Module-5

- 9 a. Differentiate structures and unions with syntax and example. (06 Marks)
 - b. Write a C program to swap 2 numbers and use the same to explain advantage of call by reference method over call by value method. (09 Marks)
 - c. List any 5 preprocessor directives in C. (05 Marks)

- 10 a. Write a C program to add 2 complex numbers using structures. (06 Marks)
 - b. Write a C program to compute sum, mean and standard deviation of all elements stored in an array using pointers. (10 Marks)
 - c. What are pointers? Discuss pointer arithmetic with examples. (04 Marks)

CBCS SCHEME

21MAT21

Second Semester B.E. Degree Examination, July/August 2022 Advanced Calculus and Numerical Methods

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1 a. Evaluate
$$\int_{-c}^{c} \int_{-b}^{b} \int_{-a}^{a} (x^2 + y^2 + z^2) dx dy dz$$
. (06 Marks)

b. Evaluate
$$\int_{0}^{4a} \int_{\frac{x^2}{4a}}^{2\sqrt{ax}} xy dy dx$$
 by changing the order of integration. (07 Marks)

c. Prove that
$$\beta(m,n) = \frac{\Gamma(m)\Gamma(n)}{\Gamma(m+n)}$$
. (07 Marks)

OR

2 a. Evaluate
$$\int_{0}^{\infty} \int_{0}^{\infty} e^{-(x^2+y^2)} dxdy$$
 by changing to polar coordinates. (06 Marks)

b. Find the area between the parabolas
$$y^2 = 4ax$$
 and $x^2 = 4ay$. (07 Marks)

c. Prove that
$$\int_{0}^{\frac{\pi}{2}} \sqrt{\cot \theta} d\theta = \frac{\pi}{\sqrt{2}}.$$
 (07 Marks)

Module-2

- 3 a. Find the directional derivative of $\phi = \frac{xz}{x^2 + y^2}$ at the point (1, -1, 1) in the direction of $\hat{i} 2\hat{j} + \hat{k}$. (06 Marks)
 - b. Find div \vec{F} and curl \vec{F} , where $\vec{F} = \text{grad}(xy^3z^3)$. (07 Marks)
 - c. If $\vec{F} = (x + y + az)\hat{i} + (bx + 2y z)\hat{j} + (x + cy + 2z)\hat{k}$, find a, b, c such that \vec{F} is irrotational.

 (07 Marks)

- 4 a. If $\vec{F} = xy\hat{i} + (x^2 + y^2)\hat{j}$, evaluate $\int_{C} \vec{F} \cdot d\vec{r}$ along the curve $C: y = x^2 4$ in the xy-plane from the point (2, 0) to (4, 12).
 - b. Using Green's theorem, evaluate $\int (y-\sin x)dx + \cos xdy$ where C is the triangle in the xy-plane bounded by the lines $y=0, x=\frac{\pi}{2}$ and $y=\frac{2x}{\pi}$. (07 Marks)
 - c. Using Stokes theorem, evaluate $\oint_C \vec{F} \cdot d\vec{r}$, where $\vec{F} = (x^2 + y^2)\hat{i} 2xy\hat{j}$ taken around the rectangle bounded by x = 0, x = a, y = 0, y = b. (07 Marks)

- 5 a. Form the partial differential equation by eliminating the arbitrary function from $z = f(x^2 + y^2)$ (06 Marks)
 - b. Solve $\frac{\partial^2 z}{\partial x^2} = a^2 z$ given that x = 0, z = 0 and $\frac{\partial z}{\partial x} = a \sin y$. (07 Marks)
 - c. Derive one dimensional wave equation, $\frac{\partial^2 u}{\partial t^2} = C^2 \frac{\partial^2 u}{\partial x^2}$. (07 Marks)

OR

- 6 a. Form the partial differential equation by eliminating the arbitrary function from, $x+y+z=f(x^2+y^2+z^2)$ (06 Marks)
 - b. Solve $\frac{\partial^2 z}{\partial x \partial y} = \sin x \sin y$ for which $\frac{\partial z}{\partial y} = -2\sin y$, when x = 0 and z = 0 when y is an odd

multiple of $\frac{\pi}{2}$. (07 Marks)

c. Solve $(x+2z)p+(4zx-y)q=(2x^2+y)$ (07 Marks)

Module-4

- 7 a. Find a root of the equation $\tan x = x$ which is near to x = 4.5 using Newton's Raphson method. (06 Marks)
 - b. Given $\sin 45^{\circ} = 0.7071$, $\sin 50^{\circ} = 0.7660$, $\sin 55^{\circ} = 0.8192$, $\sin 60^{\circ} = 0.8660$ find $\sin 52^{\circ}$ using Newton's forward interpolation formula. (07 Marks)
 - c. Evaluate $\int_{0}^{1} \sqrt{\sin x + \cos x} \, dx$ correct to two decimal places using Simpson's $\frac{1}{3}^{rd}$ rule taking seven Equi distance ordinates. (07 Marks)

OR

- 8 a. Find the root of the equation $x \log_{10} x = 1.2$ that lies between 2 and 3 correct to three decimal places, using Regula Falsi method. (06 Marks)
 - b. Using Newton's divided difference formula find f(4) given that,

X	0	2	3	6
f(x)	-4	2	14	158

(07 Marks)

c. Evaluate $\int_{0}^{0.3} \sqrt{1-8x^3} dx$ using Simpson's $\left(\frac{3}{8}\right)^{th}$ rule by taking seven ordinates. (07 Marks)

Module-5

- 9 a. Solve $\frac{dy}{dx} = e^x y$, y(0) = 2 using Taylor's series method upto 4th degree terms at any point x. (06 Marks)
 - b. Using modified Euler's method, find y at x = 0.2 from $\frac{dy}{dx} = 3x + \frac{y}{2}$ with y(0) = 1 taking h = 0.1 perform two iteration at each step. (07 Marks)
 - c. Solve $\frac{dy}{dx} = 2e^x y$ given that y(0) = 2, y(0.1) = 2.010, y(0.2) = 2.040, y(0.3) = 2.090 find y(0.4) using Milne's predictor corrector method. (07 Marks)

OR

- 10 a. Employ Taylor's series method to obtain the value of y at x = 0.1 for the equation $\frac{dy}{dx} = 2y + 3e^x$, y(0) = 0 considering upto 4th degree term. (06 Marks)
 - b. Use Runge Kutta method of order 4 find y at x = 0.2 given that $\frac{dy}{dx} = \frac{y^2 x^2}{y^2 + x^2}$, y(0) = 1 taking h = 0.2.
 - c. Apply Milne's predictor corrector method to find y(1.4) from $\frac{dy}{dx} = x^2 + \frac{y}{2}$ given that y(1) = 2, y(1.1) = 2.2156, y(1.2) = 2.4549, y(1.3) = 2.7514. (07 Marks)

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First/Second Semester B.E. Degree Examination, July/August 2022 Engineering Chemistry

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Define Single Electrode Potential. Derive Nernst equation for Single Electrode Potential.
 - to. Explain the construction and working of glass electrode. (07 Marks)
 - c. Describe the construction and working of lithium ion battery. Mention its applications. (06 Marks)

OR

- 2 a. What are Reference Electrodes? Discuss the construction and working of Calomel electrode. (07 Marks)
 - b. Calculate the single electrode potential of copper electrode at 28°C. Given that standard electrode potential of Cu is 0.34V and concentration of Cu²⁺ ions is 0.012m. (07 Marks)
 - c. Distinguish between Primary, Secondary and Reserve batteries. (06 Marks)

Module-2

- 3 a. Explain the following factors which affect the rate of corrosion:
 - i) Ratio of Anodic and Cathodic area ii) Nature of corrosion product. (07 Marks)
 - b. What is Electroless Plating? Distinguish between Electroplating and Electroless plating.
 (07 Marks)
 - c. Describe differential Metal corrosion and Water line corrosion.

ΩR

- 4 a. Explain Sacrificial anode and Impressed current method of corrosion control. (07 Marks)
 - b. What is meant by Metal finishing? Mention technological importance of Metal finishing.
 (07 Marks)
 - c. A steel sheet area 400cm^3 (62 in²) is exposed to moist air. After one year period it was found to experience a weight loss of 375g due to corrosion. If the density of steel is 7.9 g/cm³, calculate the CPR in mpy and mmy⁻¹. Given that K = 534 in mpy and 87.6 in mmy⁻¹.

(06 Marks)

(07 Marks)

(06 Marks)

Module-3

- 5 a. What are Polymer Composites? Explain the synthesis, properties and applications of Kevlar. (07 Marks)
 - b. Describe the mechanism of conduction in Polyaniline.
 - Discuss the properties and applications of Carbon nanotubes. (06 Marks)

- 6 a. Explain the synthesis, properties and application of Polymethane. (07 Marks)
 - b. What are Biodegradable polymers? Explain the synthesis, properties and applications of Polylactic acid. (07 Marks)
 - c. What are Nanomaterials? Describe the synthesis of Nano materials by Sol Gel process.

- 7 a. Define Green chemistry. Briefly explain basic principles of Green chemistry. (07 Marks)
 - b. Discuss the synthesis of Adipic acid by conventional route from benzene and green route from glucose. (07 Marks)
 - c. Describe the construction and working of Methanol Oxygen fuel cell. (06 Marks)

OR

- 8 a. Explain the synthesis of Paracetamol by conventional and green route from phenol.
 - (07 Marks)

 Describe the production of hydrogen by photocatalytic water Splitting method. (07 Marks)
 - c. Explain the construction and working of Photovoltaic cell. (06 Marks)

Module-5

- 9 a. Explain the Theory, Instrumentation and Applications of Colorimetry. (07 Marks)
 - b. Discuss the determination of hardness of water by EDTA method. (07 Marks)
 - c. Define the following terms:
 - i) Normality ii) Molarity iii) Mole fraction. (06 Marks)

ΩR

- 10 a. Explain the theory and any two applications of Conductometric Analysis. (07 Marks)
 - b. In a COD experiment, 24.8 and 16.6cm3 of 0.2N FAS solutions are required for blank and sample titration respectively. The volume of test sample used was 25cm³. Calculate COD of the sample solution. (07 Marks)
 - c. What are Primary and Secondary standards? Explain the requirements of Primary Standard solution. (06 Marks)



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First/Second Semester B.E. Degree Examination, July/August 2022 Engineering Physics

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.

2. Draw neat sketches wherever necessary.

3. Constants: Electron mass $M = 9.1 \times 10^{-31} kg$, Electron charge $e = 1.6 \times 10^{-19} C$, Velocity of light $C = 3 \times 10^8$ m/s, Planck's constant $h = 6.626 \times 10^{-34}$ Js, Avagadro number $N_A = 6.025 \times 10^{26} / k$ mol, Permitivity of free space $\epsilon_0 = 8.854 \times 10^{-12} F / m$, Acceleration due to gravity g = 9.8 m/s², Boltzman constant $K = 1.38 \times 10^{-23}$ J/K

Module-1

- 1 a. What are forced oscillations? Obtain expression for displacement of forced oscillations.
 - b. With a neat diagram explain the construction and working of Reddy's shock tube. (08 Marks)
 - c. For a particle executing simple harmonic motion amplitude is 13m and period is 2π sec. Find its velocity when the displacement is 5m from the mean position. (04 Marks)

OR

- 2 a. Find the effective spring constant in case of spring connected in series and parallel combination. (08 Marks)
 - b. Define SHM and mention any two examples. Obtain differential equation of motion for SHM and its natural frequency of oscillation. (08 Marks)
 - c. A mass of 2 kg suspended by a spring of force constant 51.26 N/m is executing damped SHM with a damping 5 kg/s. Identify whether it is the case of underdamping or of overdamping. Also estimate the value of damping required for the oscillation to be critically damped (Ignore the mass of spring) (04 Marks)

Module-2

- 3 a. Using Schrodinger wave equation, obtain the eigen function and eigen value for a particle in a box. (09 Marks)
 - b. State Heisenberg Uncertainty Principle. Show that an electron does not exists inside the nucleus on the basis of Heisenberg Uncertainty Principle. (07 Marks)
 - c. Calculate the energy of the neutron in eV, if its deBroglie wavelength is 3 Å and $m_n = 1.67 \times 10^{-27} \text{ kg}$. (04 Marks)

- 4 a. Discuss the spectral radiancy in Black body? Deduce Wein's law and Rayleigh-Jean's law from Planck's radiation law. (09 Marks)
 - b. Setup one-dimensional time-independent Schrodinger wave equation. (07 Marks)
 - c. An electron is bound in a 1-dimensional box of 0.1 nm length. Calculate the energy required to excite it from its ground state to third excited state. (04 Marks)

- 5 a. Explain the requisites for a laser action? Obtain the expression for energy density using Einstein's coefficients at thermal equilibrium condition. (10 Marks)
 - b. With neat diagram explain the principle, construction and working of phase modulated temperature sensor. (06 Marks)
 - c. How many photons of yellow light of wavelength 5500 Å constitutes 1.5 J of energy.

(04 Marks)

OR

- 6 a. Explain the construction and working of carbon dioxide laser with the help of energy level diagram. (09 Marks)
 - b. What is numerical aperture? Derive the expression for acceptance angle of an optical fiber.

 (07 Marks)
 - c. Calculate the refractive indices of core and cladding of a given optical fiber with numerical aperture of 0.22 and fractional index change variation 0.012. (04 Marks)

Module-4

- 7 a. Mention any three assumptions of classical free electron theory? Discuss the success of Quantum free electron theory. (09 Marks)
 - b. Obtain expression for electrical conductivity in semiconductors. (07 Marks)
 - c. The dielectric constant of He gas at NTP is 1.0000684. Calculate the electronic polarisability of He atoms if the gas contains 2.7×10^{28} atom/m³. (04 Marks)

OR

- 8 a. What is Hall Effect? Obtain expression for Hall voltage and express Hall voltage in terms of Hall coefficient. (09 Marks)
 - b. What is polarization? Explain different types of polarization. (07 Marks)
 - c. Find the temperature at which there is 1% probability that a state with an energy 0.5 eV above Fermi energy is occupied. (04 Marks)

Module-5

- 9 a. With a neat diagram, explain the principle, construction and working of Atomic Force Microscope. (10 Marks)
 - b. What are nano-materials and classify the nano materials based on the dimensional constraints. (05 Marks)
 - c. GaAs has its principle planes separated at $5.6534\,\text{Å}$. The first order Bragg reflection is located at 13° 40'. Calculate
 - (i) The wavelength of the x-ray
 - (ii) The angle for second order Bragg reflection.

(05 Marks)

OR

- 10 a. Explain the construction and working of x-ray diffractometer. (07 Marks)
 - b. Describe the principle, construction and working of scanning electron microscope with the help of neat diagram. (08 Marks)
 - c. Determine the crystal size given the wavelength of x-ray 12 nm, the peak width 0.5° and peak position 23° for a cubic crystal. Given K = 0.94. (05 Marks)

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First/ Second Semester B.E. Degree Examination, July/August 2022 Basic Electrical Engineering

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. State and explain ohm's law with its limitations. (06 Marks)
 - b. Define form factor. Obtain its value for a sinusoidal voltage.
 - c. A circuit consists of two parallel resistors of $20~\Omega$ and $30~\Omega$ respectively, connected in series with a $15~\Omega$ resistor. If the current through 15Ω resistor is 3A, find the branch currents, supply voltage and power consumed by 20Ω and 15Ω resistors. (06 Marks)

OF

- 2 a. Prove that, the circuit efficiency during maximum power transfer from source to load is only 50%. (06 Marks)
 - b. Show that, the power consumed by a pure capacitor is zero, when connected across A.C. supply. (08 Marks)
 - c. For the sine wave, $e = 140 \sin 314t$. Find:
 - (i) Peak value
- (ii) Frequency
- (iii) Average value

- (iv) RMS value
- (v) Time period
- (vi) Instantaneous voltage at t = 3 ms

(06 Marks)

(08 Marks)

Module-2

- 3 a. Develop an equation for the power consumed by a R-L series circuit. Draw the waveform of voltage, current and power. (08 Marks)
 - b. Deduce the relationship between the line and phase values of voltage and current of a three phase star connected system. (06 Marks)
 - c. Two impedances $Z_1 = (150 j157) \Omega$ and $Z_2 = (100 j110) \Omega$ are connected in parallel across 200 V, 50 Hz supply. Find:
 - (i) Total current

- (ii) Branch currents
- (iii) Total power consumed
- (iv) Draw phasor diagram

(06 Marks)

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- 4 a. Show that, only two wattmeters are sufficient to measure power in a three phase balanced star connected circuit with the help of neat circuit diagram and phasor diagram. (08 Marks)
 - b. A balanced star connected load of $(8 + j6) \Omega$ per phase is connected to a 3-phase, 230 V supply. Find the line current, power factor, active power, reactive power and total power.

(06 Marks)

- c. A circuit consists of a resistance of 25 Ω and a capacitance of 100 μ F connected in series. A supply of 200 V, 50 Hz is applied across the circuit. Find:
 - (i) Impedance
- (ii) Current

(iii) Power factor

- (iv) Power
- (v) Voltage drop across R and C
- (vi) Draw phaser diagram.

(06 Marks)

- 5 a. With the help of neat diagram, explain the construction of D.C. generator. (08 Marks)
 - b. With usual notations, derive the emf equation of a transformer. (06 Marks)
 - c. The field current in a d.c. shunt machine is 2A and the line current is 20A at 200V. Calculate:
 - (i) The generated emf when working as generator
 - (ii) Torque (N-m) when running at 1500 rpm as motor

Take the armature resistance as 0.5Ω .

(06 Marks)

OR

- 6 a. Explain the losses in a transformer and how to minimize them. On what factor they depend? Give the equations for these losses. (08 Marks)
 - b. With usual notations, derive the torque equation of a D.C. motor. (06 Marks)
 - c. A transformer is rated at 100 KVA. At full load its copper loss is 1200 Watts and its iron loss is 960 Watts. Calculate:
 - (i) The efficiency at full load, UPf
 - (ii) The efficiency at half load, 0.8 p.f.
 - (iii) The maximum efficiency at 0.85 p.f. for the new load KVA 89 KVA at which maximum efficiency occurs. (06 Marks)

Module-4

- 7 a. With relevant diagram, explain the construction of three phase induction motor. (08 Marks)
 - b. Explain the advantages of rotating magnetic field over the rotating armature in a synchronous generator. (06 Marks)
 - c. A 10 pole induction motor supplied by a 6 pole alternator which is driven at 1200 rpm. If the motor runs at a slip of 3%, what is its speed and frequency of rotor induced emf. (06 Marks)

OR

- 8 a. Derive an emf equation of a synchronous generator. Explain the significance of winding factor. (08 Marks)
 - b. Define slip of a 3-phase induction motor and derive the relation between supply frequency and rotor current frequency. (06 Marks)
 - c. A 3-phase, 16 pole alternator has a star connected winding with 144 slots and 10 conductors per slot. The flux per pole is 0.003 webers and the speed is 375 rpm. Find the frequency, phase emf and line emf. (06 Marks)

Module-5

- 9 a. With a single line diagram, explain the power transmission and distribution. (06 Marks)
 - b. What is earthing? With a neat diagram, explain pipe earthing. (08 Marks)
 - c. Define tariff. Explain briefly the two part tariff with its advantages and disadvantages.

(06 Marks)

OR

- 10 a. What is electric shock? Give the list of preventive measures against the shock. (06 Marks)
 - b. With neat diagram, explain the working of fuse and RCCB (Residual Current Circuit Breaker). (08 Marks)
 - c. A consumer has a maximum demand of 200 KW at 40% load factor. If the tariff is Rs.100 per KW of maximum demand plus 10 paise per KWh. Find the overall cost per KWh.

(06 Marks)

CBCS SCHEME

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First/Second Semester B.E. Degree Examination, July/August 2022 **Problem Solving Through Programming**

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- a. Discuss various generations of computers, highlighting features of each one. (10 Marks)
 - b. With the basic structure of a C program and explain with an example.

(10 Marks)

2 a. Differentiate primary memory and secondary memory.

(05 Marks)

b. List and explain logical operators and analyze the following code and write the output with proper reasoning.

```
#include <stdio,h>
void main()
{
    printf("7 && 0 = % d\n", 7 && 0
    printf("7 | | 0 = % d\n", 7 | 0);
    printf("!0 = %d", !0);
```

(10 Marks)

c. Discuss basic data types supported in 'C'

(05 Marks)

Module-2

3 a. Write a C program to find roots of a quadratic equation.

- (10 Marks)
- b. Write the syntax of switch statement and explain with a suitable example.
- (10 Marks)

OR

- 4 a. Write the syntax of while and do-while statements. Also, list differences between them with example. (06 Marks)
 - b. Write a C program to print whether a given integer number is palindrome or not. (07 Marks)
 - c. Discuss break and continue statements with suitable examples.

(07 Marks)

Module-3

- 5 a. Define arrays and discuss various ways of initializing 1D array with examples. (10 Marks)
 - b. Write a C program to sort given integers in ascending order and using selection sort and trace by taking 5 integers. (10 Marks)

OR

- **6** a. Define strings and explain how they are declared and initialized.
 - b. Write a C program to search for a given number in an array using binary search technique.

(08 Marks)

(06 Marks)

c. Explain any 6 string manipulation functions with example.

(06 Marks)

- 7 a. What is a user defined function? Discuss different categories of user defined functions with appropriate example for each. (10 Marks)
 - b. Write a recursive function to find factorial of a number. (06 Marks)
 - c. Discuss storage class specifiers. (04 Marks)

OR

- 8 a. Define recursion. Write a recursive program to find nth Fibonacci number. (08 Marks)
 - b. Write a program to find GCD and LCM of 2 numbers. (08 Marks)
 - c. What are the advantages of writing user defined functions? (04 Marks)

Module-5

- 9 a. Differentiate structures and unions with syntax and example. (06 Marks)
 - b. Write a C program to swap 2 numbers and use the same to explain advantage of call by reference method over call by value method. (09 Marks)
 - c. List any 5 preprocessor directives in C. (05 Marks)

OR

- 10 a. Write a C program to add 2 complex numbers using structures. (06 Marks)
 - b. Write a C program to compute sum, mean and standard deviation of all elements stored in an array using pointers. (10 Marks)
 - c. What are pointers? Discuss pointer arithmetic with examples. (04 Marks)

2 of 2

First/Second Semester B.E. Degree Examination, July/August 2022 Elements of Civil Engineering and Mechanics

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Briefly enumerate the scope of following specialization/branches of civil engineering:
 - i) Structural Engineering ii) Transportation Engineering. (10 Marks)
 - b. Discuss the role of civil engineer in infrastructure development of a country. (05 Marks)
 - c. Mention the properties and uses of aluminium in construction industry. (05 Marks)

OR

- 2 a. Enlist the qualities of good building stone.
 - What is glass? List its importance and application. (06 Marks)
 - c. Discuss the importance and application of smart materials in construction. (08 Marks)

Module-2

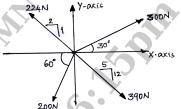
3 a. Explain 'Principle of Transmissibility' with a neat sketch.

(04 Marks)

(06 Marks)

b. Determine the resultant of four concurrent force system acting on a particle as shown in Fig.Q.3(b). (08 Marks)

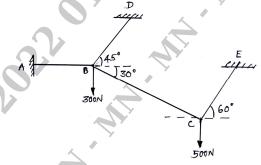
Fig.Q.3(b)



c. The Fig.Q.3(c) shows a system of cables in equilibrium under two vertical loads of 300N and 500N acting at points B and C respectively. Determine the forces developed in all the cables.

(08 Marks)

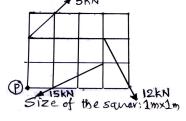




OR

4 a. Determine the magnitude, direction and position of the resultant of the force system shown in Fig.Q.4(a). (10 Marks)

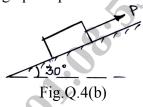
Fig.Q.4(a)



b.

- b. A block of mass 20kg placed on an inclined plane as shown in Fig.Q.4(b) is subjected to a force P acting parallel to the plane. The plane is inclined at an angle 30° to the horizontal with coefficient of friction being 0.24. determine the magnitude of P for
 - i) Motion of the body impending down the plane.
 - ii) Motion of the body impending up the plane.

(10 Marks)

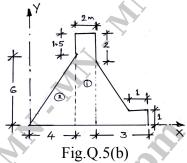


Module-3

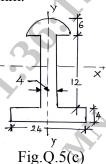
- 5 a. Define the following:
 - i) Centroid
 - ii) Axis of symmetry.

(02 Marks)

b. Find the position of centroid of the given area shown in Fig.Q.5(b) with respect to reference axis. All dimensions are in m. (08 Marks)



c. Find the polar radious of gyration of the given area shown in Fig.Q.5(c) with respect to its centroidal axis. All dimensions are in mm. (10 Marks)



OR

6 a. State and prove parallel axis theorem.

(04 Marks)

- b. Find the moment of inertia of a rectangular area with respect to its centroidal axis from first principles/method of integration. (06 Marks)
- c. Locate the centroid of the shaded area shown in Fig.Q.6(c) with respect to the X and Y axis.

 (10 Marks)

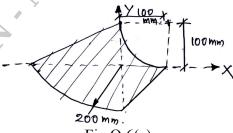


Fig.Q.6(c)

(06 Marks)

Module-4

- 7 a. Differentiate between 'determinate and indeterminate' structure with an example for each.
 (06 Marks)
 - b. Explain the different types of beams and supports.
 - c. Determine reactions at A and E for the beam shown in Fig.Q.7(c). (08 Marks)

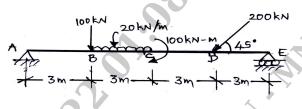


Fig.Q.7(c)

OR

8 a. List the assumptions made in the analysis of truss.

(04 Marks)

b. Explain different types of loads.

(03 Marks)

c. Determine the magnitude and nature of forces in the members of the truss shown in Fig.Q.8(c) by method of joints. (13 Marks)

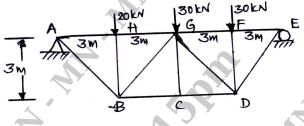


Fig.Q.8(c)

Module-5

9 a. What is Super elevation? Why it is required?

(04 Marks)

- b. Two cars P and Q accelerates from a standing start. The acceleration of P is 1.3m/s² and that of Q is 1.6m/s². If Q starts initially 6m behind P, how long it takes to overtake P? (08 Marks)
- c. A stone 'A' is dropped from a tower of 50m height. At the same height, another stone B is thrown up from the front of the tower with velocity of 25m/s. At what distance from top and after how much time the two stones will cross each other. (08 Marks)

OR

10 a. State D' Alembert's principle. Mention its application for the case of plane motion.

(04 Marks)

- b. Two stones A and B are projected from the same point at an inclination of 45° and 30° respectively to the horizontal. Find the ratio of velocities of projection of A and B, if the maximum height reached by them is same.

 (08 Marks)
- c. A pilot flying his bomber at a height of 2000m with uniform horizontal velocity of 600kmph wants to strike a target. At what distance from the target he should release the bomb.

(08 Marks)

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First/Second Semester B.E. Degree Examination, July/August 2022 Basic Electronics and Communication Engineering

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- a. With a neat block diagram, explain the working of DC power supply. Also mention the principle components used in each block. (07 Marks)
 - b. Sketch the circuit of each of the following based on the use of operational amplifiers:
 - (i) Differentiator (ii) Integrator (iii) Inverting amplifier (06 Marks)
 - c. Explain the working of Bi phase Full wave rectifier circuit with neat diagram and waveforms. (07 Marks)

OR

- 2 a. Mention the advantages of negative feed-back in amplifiers circuits. With relevant equations and diagram, explain the concept of negative feedback. (07 Marks)
 - b. With suitable circuit diagram, explain single stage astable multivibrator using operational amplifier. (07 Marks)
 - c. Explain the conditions for sustained oscillations. Determine the frequency of oscillation of a three stage ladder network in which C = 10 nF and R = 10 K Ω . (06 Marks)

Module-2

- 3 a. With a neat block diagram, explain the arrangement of a microcontroller system. (06 Marks)
 - b. Design a 3:8 decoder and show its implementation using basic gates. (08 Marks)
 - c. With the help of truth table, explain a full adder using logic gates. (06 Marks)

OR

- 4 a. Write a note on different data types mentioning the bit size and range of values supported.
 - (06 Marks)

(06 Marks)

- b. Define a bistable. Using truth table and logic circuit, explain RS bistable. (07 Marks)
- c. What is multiplexer? With truth table and logic circuit, explain 8:1 multiplexer. (07 Marks)

Module-3

- 5 a. Compare embedded system and general computing system. Also provide the application areas of embedded systems. (08 Marks)
 - b. Explain the different configurations of 7-segment LED display. (06 Marks)
 - c. Write a note on classification of embedded systems.

- 6 a. Define actuator. With relevant diagram, explain the operation of Relay, Push button, Piezo buzzer. (08 Marks)
 - b. Bring out the differences between RISC and CISC and Harvard and Vonneumann architecture. (06 Marks)
 - c. Bring out the main features of UART and USB. (06 Marks)

- 7 a. Describe the basic block diagram of a communication system. (06 Marks)
 - b. Explain the following with the help of waveforms: (i) PAM (ii) PWM (iii) PPM (08 Marks)
 - c. Define an antenna and discuss different types of antennas. (06 Marks)

OR

- 8 a. Explain different types of radio wave propagation with a neat diagram. (06 Marks)
 - o. Discuss various Multiple Access Techniques used in cellular network. (06 Marks)
 - c. Define sampling theorem, Nyquist rate and explain when aliasing can happen. Also mention the ways in which aliasing can be avoided. (08 Marks)

Module-5

- 9 a. Draw the schematic diagram of a cellular telephone system and define its basic components.
 (06 Marks)
 - b. Bring out the features of FM transmitter and FM receiver in microwave communication system. (08 Marks)
 - c. Explain the optical fibre communication system with a block diagram. (06 Marks)

OR

- 10 a. Write a short note on : (i) WLAN (ii) Blue tooth (06 Marks)
 - b. Draw the architecture of GSM system and explain the important features of it. (08 Marks)
 - c. Draw the block diagram showing the basic elements of a satellite communication system and briefly explain them. (06 Marks)

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First/Second Semester B.E. Degree Examination, July/August 2022 Elements of Mechanical Engineering

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. Use of steam tables is permitted.

Module-1

- a. Discuss the various emerging trends and technologies in different sectors and their contribution to GDP. (06 Marks)
 - b. Draw T-h diagram of steam formation and label the various properties of steam on it.

(06 Marks)

c. Describe the energy conversion from hydel energy into electrical energy with the aid of suitable sketch. (08 Marks)

OR

2 a. Explain the working of centrifugal pump with a sketch.

(08 Marks)

- b. Find the enthalpy of one kg of steam at 12 bar when
 - i) Steam is 22% wet
 - ii) Steam is dry saturated
 - iii) Superheated to 250°C

Assume specific heat of super heated steam as 2.25 kJ/kg K. the values of steam properties at 12 bar are $t_s = 188$ °C, $h_f = 798.43$ kJ/kg, $h_{fg} = 1984.3$ kJ/kg. (06 Marks)

c. Briefly explain the working of tidal power plant and mention its limitations. (06 Marks)

Module-2

3 a. Explain the non ferrous metals with their applications.

(06 Marks)

b. Distinguish between Soldering, Brazing and Welding,

(06 Marks)

c. Compare TIG and MIG welding with sketches.

(08 Marks)

OR

- 4 a. Why is cooling necessary for electronic devices? Discuss Active, Passive and Hybrid cooling. (06 Marks)
 - b. How are composites classified? Mention their applications.

(06 Marks)

c. What are smart materials and shape memory alloys? Explain.

(08 Marks)

Module-3

- 5 a. Draw a neat sketch of internal combustion engine and label the components. (06 Marks)
 - b. Explain the concept of electric vehicle with components.

(08 Marks)

c. List the desirable properties of good refrigerant.

(06 Marks)

ΛR

- 6 a. Explain the working of window type air conditioning system with neat sketch. (10 Marks)
 - b. The following observations were made during a test on a two stroke cycle oil engine. Bore = 200mm, stroke = 250mm, Speed = 350 rpm, Brake drum diameter = 1200mm, Net brake load = 450N, mean effective pressure = 2.8bar, oil consumption = 3.6 kg/hr, calorific value of oil = 41868 kJ/kg. Determine IP, BP mechanical efficiency, indicated thermal efficiency and brake thermal efficiency. (10 Marks)

- 7 a. Illustrate with sketches differences between simple and compound gear train. (08 Marks)
 - b. Find the length of an open belt driving two parallel shafts 2m apart, connected by two pulleys of 0.1m and 0.8m diameter. Also determine the additional length of belt required if cross belt drive is used. (08 Marks)
 - c. Define the terms:
 - i) Machine
 - ii) Mechanism.

(04 Marks)

OR

- 8 a. Classify and explain the types of robots configuration. (10 Marks)
 - b. List and explain the types of Gears. (05 Marks)
 - c. Mention the applications of Chains and Ropes. (05 Marks)

Module-5

- 9 a. Explain the following lathe operations with sketches.
 - i) Facing
 - ii) Taper turning
 - iii) Knurling. (10 Marks)
 - b. Describe the working of CNC system and mention its applications. (10 Marks)

- 10 a. Define milling. Explain the working of horizontal spindle milling machine. (10 Marks)
 - b. Explain the concept of open loop and closed loop system in mechatronics.
 c. Discuss the concept of smart manufacturing.
 (05 Marks)
 (05 Marks)

CBCS SCHEME

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Second Semester B.E./B.Tech./B.Arch/B.Planning Degree Examination, July/August 2022

Professional Writing Skills in English

(COMMON TO ALL BRANCHES)

Time: 2 hrs.] [Max. Marks: 100

INSTRUCTIONS TO THE CANDIDATES

- 1. Answer all the Hundred questions, each question carries **ONE mark**.
- 2. Use only **Black ball point pen** for writing / darkening the circles.
- **3.** For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.
- 4. Darkening two circles for the same question makes the answer invalid.
- 5. Damaging/overwriting, using whiteners on the OMR sheets are strictly prohibited.

	General English Gra	mmar: Select the correct	option.	
1.	Her thinking leans a) with	democracy. b) towards	c) for	d) None of these
2.	He got too tired a) because of	over work. b) because off	c) on	d) for
3.		he has to be very careful. b) with regard on	c) with regard to	d) None of these
4.	Building has been bui a) accordance to	the new plan. b) in accordance with	c) for	d) about
5.	He crossed the broker a) in spite of	b) in spite off	c) on	d) about
6.	Which of these do not a) Engineer	deal with precise information b) Scientist	on? c) Technician	d) Fiction writer
7.		yee communicates horizonts b) subordinates	ally with his c) colleagues	d) assistant
8.		sentence in a paragraph shown b) 25 to 30 words	ald be c) 2 to 5 words	d) 5 to 10 words

Version A - 1 of 8

9.	Which of these is not	a feature of a paragraph?		
	a) Length	b) Unity	c) Incoherence	d) Correctness
			6.0	
10.		an important feature of a p		1) G 1
	a) Length	b) Breadth	c) Unity	d) Coherence
11.	Resume is called curr	ioulum vitao in		
11.	a) India	b) France	c) North America	d) South America
	a) maia	b) I funce	c) Hortii America	Jay South 7 thichica
12.	Which of these letters	are in response to an adve	ertisement?	
	a) Solicited letters		b) Unsolicited letters	
	c) Letters of enquiry	SV.	d) Letters of complaint	
13.		of application must include		_
	a) For complain	b) For employment	c) For enquiry	d) For adjustment
14.	Technical writing den	nands use of lang	21200	
14.	a) figurative	b) poetic	c) factual	d) dramatic
	a) ligarative	o) poetie	c) lactaal	a) dramatic
15.	Which of these must b	be avoided in technical wri	iting?	
	a) Facts		b) Grammar	
	c) Punctuation		d) Personal feelings	
	WI : 1			
16.		is used in technical writin		1) D-44
	a) Apex	b) Top	c) Slanting	d) Bottom
17.	Which of these is a te	chnical word for slanting?		
17.	a) Lateral	b) Sloping	c) Tilting	d) Bent
	,			,
18.	Which of these should	d be avoided for an effective		
	a) Planning of speech	C Y	b) Preparation of speech	
	c) Long sentences		d) Organization	
19.	Which of those should	d be avoided during the de	livery of a graceh?	
19.	a) Confidence	b) Clarity	c) Pauses	d) Rudeness
	a) Comidence	o) Clarity	c) i duses	d) Rudelless
20.	Which of these is not	a type of public speech?		
	a) Short speech		b) Informal speech	
	c) Written speech		d) Professional speech	
	00			
			.•	
	General English Que	estions on Pronoun Corre	ection:	
21.	Correct the sentence i	f necessary. One should re	snect his elders	
-11	a) One should respect		b) One should respect he	er elders.
	c) One should respect	Y .	d) None of these.	
			•	
22.		f necessary. One should re		
	a) One should respect		b) One should respect he	_
	c) One should respect		d) One should respect or	ne's country.
		Version A	1 - 4 UI O	

23.	Correct the sentence if necessary. One must love	<u> </u>
	a) One must love her parents.	b) One must love his parents.
	c) One must love their parents.	d) One must love one's parents.
		VY
24.	Correct the sentence if necessary. I and Jimmy w	
	a) I and Jimmy went home.	b) Jimmy and I went home.
	c) a and b	d) None of these.
25.	Correct the sentence if necessary. I and she are f	
	a) I and she are friends.	b) She and I are friends.
	c) She and me are friends.	d) None of these.
26		11
26.	Correct the sentence if necessary. I and Dhoni w	
	a) I and Dhoni went to college.	b) Dhoni and I went to college.
	c) Dhoni and me went to college.	d) None of these.
27	Compet the contenes if we again, Dath he and w	ay areat attend the meeting
27.	Correct the sentence if necessary. Both he and you	
	a) Both he and you must attend the meeting.	d) None of these.
	c) a and b	d) None of these.
28.	Correct the sentence if necessary. Peter invited r	ne and you to dinner
20.	a) Peter invited you and me to dinner.	b) Peter invited me and you to dinner.
	c) a and b	d) None of these.
	c) a and s	d) Ivolic of these.
29.	Correct the sentence if necessary. I, you and she	can do it
	a) I, you and she can do it.	b) You, I and she can do it.
	c) You, she and I can do it.	d) She, you and I can do it.
30.	Correct the sentence if necessary. None of the th	aree questions are simple.
	a) None of the three questions are simple.	b) None of the three questions is simple.
	c) a and b	d) None of these.
	General English Questions on Adjectives:	4
	, ,	
31.	Correct the sentence if necessary. She is senior t	
	a) She is senior than me.	b) She is senior to me.
-	c) She is senior then me.	d) None of these.
32.	Correct the sentence if necessary. He is junior th	
	a) He is junior than me.	b) He is junior then me.
	c) He is junior to me.	d) None of these.
22	Correct the sentence if necessary. He is senior to	hor
33.	a) He is senior than her.	
		b) He is senior then her.
	c) He is senior to her.	d) None of these.
34.	This is preferable than that.	
	a) This is preferable than that.	b) This is preferable then that.
	c) This is preferable to that.	d) None of these.
	Version A	,

35.	My sister is elder than me.	1) March 11 - 11 - 12 - 1	
	a) My sister is elder than me.c) My sister is elder then me.	b) My sister is elder to nd) None of these.	ne.
	, ,		
	Questions on Verb Correction:		
36.	Correct the sentence if necessary. The girl is tak	ing biscuits every day	
•	a) The girl is taking biscuits every day.	b) The girl takes biscuits	every day.
	c) The girls is taken biscuits every day.	d) None of these.	
37.	Correct the sentence if necessary. He takes milk	every day.	
	a) He takes milk every day.	b) He is taking milk ever	ry day.
	c) He is taken milk every day.	d) None of these.	
38.	Correct the sentence if necessary. They are com-	ing here regularly.	
	a) They are coming here regularly.	b) They are come here re	egularly.
	c) They come here regularly.	d) None of these	
39.	I am studying every morning from 5-8 A.M.		
	a) I am studying every morning from 5-8 A.M.		
	b) I have been studying every morning from 5-8	A.M.	
	c) I study every morning from 5-8 A.M.d) None of these.		
	a) Trond of these	40	
40.	Every evening, he is going for a walk.		
	a) Every evening, he is going for a walk.		
	b) Every evening, he goes for a walk.c) Every evening, he has been going for a walk.		
	d) None of these.		
44	2,	· · · · · · · · · · · · · · · · · · ·	
41.	A writer must not convey information witha) precision b) clarity	 c) randomness	d) truth
		c) randomness	a) truth
42.	Which of these are to be avoided in any style of		
	a) Truth b) Clarity	c) Compassion	d) Dishonesty
43.	Which of these reports are used in business?		
	a) Formal technical reports	b) Informal reports	
	c) Personal reports	d) Musical reports	
44.	Which of the following is NOT a method of write	ting a non-formal letter?	
	a) Filling in a blank form	b) Form of a letter	
	c) Form of a memorandum	d) Formal of a notice	
45.	A non-formal report written in the form of letter	is similar to a	
	a) friendly letter b) business letter	c) complaint letter	d) notice
4.6	William College		
46.	Which of these does not come under reports? a) News items b) Memorandums	c) Notice	d) Report cards
	Version	,	a) report cards

47.	Which of these is not	a parameter of a formal re	port?	
	a) Presentation	b) Complaint	c) Information	d) Request
48.	Meaning of "Fly by ra) Night journey c) Cat's eye	night"	b) A bird busy in nig d) Swindler	ht
49.	Synonym of Exhort a) Weak Plea	b) To urge strongly	c) Beg	d) Borrow
50.	Antonym of Blunt a) Easy	b) Lazy	c) Sharp	d) Speedy
51.	Antonym of Brave a) Achieve	b) Gain	c) Give	d) Cowardly
52.	Synonym of Abjure a) To give	b) To take back	с) Нарру	d) Sorry
53.	Synonym of Abrogat a) Create	b) Run	c) Fascinate	d) Abolish
54.	Unfortunately, hea) Borrowed	a lot of money to b) Owed	the bank. c) Deposited	d) Lent
55.	I the apartm	nent all day yesterday. b) Washed out	c) Cleaned up	d) None of these
56.	The train as as a went	fast as the bus. b) running	c) moves	d) going
57.	He was seena) went	to the school. b) going	c) gone	d) go
58.	She in the sun a) sitting	for 1 hour b) has been sitting	c) has been sit	d) has sit
59.	a) will it help you in	your studies? b) was	c) is	d) are
60.	I never seen so a) did	uch a picture before b) was	c) have	d) has
61.	Words of same sound a) Soundnyms	d is? b) Antonyms	c) Homonyms	d) None of these
62.	Sounding the same b a) Symphonious	b) Homophonous	c) Synonyms A - 5 of 8	d) Saminymous

63.	Choose the correct answer?				
	a) My friend has got a new jobc) My friend is got a new job	b) d)	My friend has got a My friend did got a		
64.	Choose the correct sentence. a) Do you like a glass of water? c) Would you like the glass of water?	b) d)	Would you like a glas		
65.	Antonym of Ad-lib? a) Improvise b) Extemporized	c)	Deliberate	d)	Spontaneous
66.	We at the party. a) Enjoyed ourself b) Enjoyed ourselves	c)	Played with	d)	None of these
67.	Choose a correct sentence below: a) There are seven girls in the class.c) There are seven girl in the class.		There is seven girls in There is seven girl in		
68.	I a letter to the Principal yesterday a) write b) forward	c)	mailed	d)	have signed
69.	Choose the correct statement: a) Although he was hurt, but he continued to w b) Although he was hurt, he continued to walk. c) He was hurt, he continued to walk. d) Although he continued to walk, he was hurt.		APIR SI	•	
70.	Choose the correct statement: a) There were between 8 to 10 policemen prese b) There were between 8 and 10 policemen prese c) There were among 8 to 10 policemen presen d) There were atleast 8 and 10 policemen presen	sent. t.			
71.	Meaning of See Eye to Eye a) To agree fully b) Not agreeing fully	(c)	In a battle field	d)	Angry
72.	He a very good grade in the examination a) Earned b) Given	c)	Received	d)	None of these
73.	We at the party late a) arrived b) went	c)	played	d)	saw
74.	The patient in his sleep a) Woke up b) Died	c)	Cried off	d)	None of these
75.	I was delighted her answer. a) On b) At	c)	For	d)	In
76.	I have no doubt it. a) At b) On Version A		Upon of 8	d)	About

77	I aggregation and a fater				
77.	I assure you your safety	`		1)	XX7°.1
	a) Off b) Of	c)	From	d)	With
70	He commeted me for the mine		1		
78.	He competed me for the prize.		To	47	Of
	a) Off b) With	c)	То	d)	Of
79.	He is difficulties				
19.	a) In b) On		From	d)	With
	a) III	(c)	Pioni	, u)	VV ILII
80.	He is true his words		7.		
00.	a) With b) On	c)	To	d)	For
	a) With b) On	C)	10	u)	101
81.	The fan is my head				
01.	a) Above b) On	c)	To	d)	With
	u) Hoove o) on	•		u)	** 1011
82.	You can see the house the trees				
02.	a) To b) On	c)	With	d)	Among
	u) 10		***************************************	α)	rimong
83.	Which of these is not a characteristic of a good e	essavʻ	?		
	a) Brevity b) Dignified style	c)	Fakeness	d)	Personal touch
		- /		,	
84.	Which of these should be avoided in a good essa	ay?			
	a) Slang b) Dignified words	-	Brevity	d)	Unity
					J
85.	Which of these is not a type of essay?				
	a) Narrative essay b) Descriptive essay	(c)	Argumentative essa	y d)	Personal essay
				-	-
86.	Which of these essays tells a story?		4		
	a) Narrative essays	b)	Descriptive essays		
	c) Reflective essays	d)	Argumentative essa	ys	
	2,		Y		
87.	In which of these essays, the writer arrives at a c			onin	g?
	a) Narrative essays	· · · · · · · · · · · · · · · · · · ·	Descriptive essays		
	c) Reflective essays	d)	Argumentative essay	/S	
	" " " " " " " " " " " " " " " " " " " "				
88.	essays are a collection of one's thoughts		•	1\	D. C.
	a) Narrative b) Expository	c)	Argumentative	d)	Reflective
00	Which of those and him a subject?				
89.	Which of these explains a subject?	1-)	E		
	a) Narrative essays		Expository essays		
	c) Argumentative essays	d)	Reflective essays		
90.	Which kind of essay uses the five senses (tou	ioh a	mall tasta sound	siaht) to onhonos the
<i>7</i> 0.		icii, s	ilicii, taste, souliu, s	sigiii) to emiance the
	imagery of the setting? a) Narrative essays	b)	Descriptive essays		
	c) Expository essays	b) d)	Argumentative essays	V/C	
	c) Expository essays	u)	Argumentative essa	ys	
91.	Indirect speech is also called as:				
11.	a) Reported speech b) Quoted speech	c)	Simple speech	4) I	Principal speech
	a) Reported speech b) Quoted speech	c)	Simple speceli	uj I	inicipal speccil

Version A - 7 of 8

92.	A report provides infor	mation on scientific	test	s carried out by en	gineers or scientists
	a) progress b) pe	riodic	c)	laboratory	d) trouble
93.	Convert the following direct so She said, "My mother is cook a) She said that her mother was b) She said that my mother was c) She said that her mother is d) She said that my mother is	ing food". vas cooking food. vas cooking food s cooking food.			
94.	Change the speech for the fol She said, "The man died in that a) She said the man died in the b) She said that the man had c) She had said the man died d) She said the man was dear	e afternoon". he afternoon. died in the afternoo in the afternoon.	n.		
95.	Convert the following statement He said to me, "I don't believe ma) He said he didn't believe ma c) He said he don't believe ma contract the said he don't be don't believe ma contract the said he don't believe ma contract	e you". ne.	b) H	direct: le said I don't belie le said I didn't belie	•
96.	If the subject is of singular number, first person c) Plural number, first person	son.	b) S	hat number and pe ingular number, thi lural number, third	ird person.
97.	Fill in the blank: Neither he n a) were b) was		c) a	are	d) am
98.	Convert the affirmative senter Mili is prettier than Neha. a) Neha is not as pretty as Mi c) Neha is not as prettier as M	li.	b) M	nce: Iili is not as pretty Iili is not prettier th	as Neha. nan Neha.
99.	Convert the following interro Who would not love his coun a) No one loves his country. c) Someone loves his country	try?	b) E	veryone loves his overyone loves the o	•
100.	Convert the following compo We must eat, or we cannot live a) We must live to eat. c) We can't live if we eat.	re.	b) W	ole sentence: Ve must eat to live. Ve can't eat if we li	ve.

	CBCS SC	TIEGH 2							
USN		Question Paper Version: B							
Sec	cond Semester B.E./B.Tech./B.Ard July/Aug	ch/B.Planning Degree Examination, gust 2022							
	Professional Writing Skills in English								
	(COMMON TO A	LL BRANCHES)							
Time:	: 2 hrs.]	[Max. Marks: 100							
	INSTRUCTIONS 7	TO THE CANDIDATES							
1.	Answer all the Hundred questions, each	question carries ONE mark.							
2.	Use only Black ball point pen for writ	ing / darkening the circles.							
3.	For each question, after selecting yo	our answer, darken the appropriate circle							
	corresponding to the same question nur	nber on the OMR sheet.							
4.									
5.		eners on the OMR sheets are strictly							
J.		shers on the ONIX sheets are strictly							
	prohibited.								
	Questions on Verb Correction:	2019							
	Correct the sentence if necessary. The girl is a) The girl is taking biscuits every day. c) The girls is taken biscuits every day.	taking biscuits every day. b) The girl takes biscuits every day. d) None of these.							
	Correct the sentence if necessary. He takes na) He takes milk every day. c) He is taken milk every day.	nilk every day. b) He is taking milk every day. d) None of these.							
	Correct the sentence if necessary. They are can a) They are coming here regularly. c) They come here regularly.	oming here regularly. b) They are come here regularly. d) None of these							
4.	I am studying every morning from 5-8 A.M.	1							

a) I am studying every morning from 5-8 A.M.

b) I have been studying every morning from 5-8 A.M.

c) I study every morning from 5-8 A.M.

d) None of these.

Every evening, he is going for a walk. **5.**

a) Every evening, he is going for a walk.

b) Every evening, he goes for a walk.

c) Every evening, he has been going for a walk.

d) None of these.

A writer must not convey information with ____ 6.

c) randomness a) precision d) truth b) clarity Version B - 1 of 8

7.	Which of these are to a) Truth	be avoided in any style of b) Clarity	writing? c) Compassion	d) Dishonesty
8.	Which of these report a) Formal technical r c) Personal reports	es are used in business? eports	b) Informal reports d) Musical reports	
9.	Which of the following a) Filling in a blank for c) Form of a memoral		iting a non-formal letter? b) Form of a letter d) Formal of a notice	· ·
10.	A non-formal report va) friendly letter	written in the form of letter b) business letter	r is similar to a c) complaint letter	d) notice
11.	Which of these does na) News items	not come under reports? b) Memorandums	c) Notice	d) Report cards
12.	Which of these is not a) Presentation	a parameter of a formal reb) Complaint	eport? c) Information	d) Request
13.	Meaning of "Fly by n a) Night journey c) Cat's eye	ight"	b) A bird busy in night d) Swindler	
14.	Synonym of Exhort a) Weak Plea	b) To urge strongly	c) Beg	d) Borrow
15.	Antonym of Blunt a) Easy	b) Lazy	c) Sharp	d) Speedy
16.	Antonym of Brave a) Achieve	b) Gain	c) Give	d) Cowardly
17.	Synonym of Abjure a) To give	b) To take back	с) Нарру	d) Sorry
18.	Synonym of Abrogate a) Create	b) Run	c) Fascinate	d) Abolish
19.	Unfortunately, he a) Borrowed	a lot of money to b) Owed	the bank. c) Deposited	d) Lent
20.	I the apartm	ent all day yesterday. b) Washed out	c) Cleaned up	d) None of these
21.	The train as a) went	fast as the bus. b) running	c) moves	d) going
22.	He was seena) went	b) going	c) gone	d) go
23.	She in the sun a) sitting	b) has been sitting	c) has been sit B - 2 of 8	d) has sit

24.	it help you in	your studies?				
	a) will	b) was	c)	is	d)	are
25.	I never seen su	ch a picture before		257		
	a) did	b) was	c)	have	d)	has
				>		
26.	Words of same sound		9			
	a) Soundnyms	b) Antonyms	(c)	Homonyms	d)	None of these
27.	Sounding the same bu	t analt differently?	/			
21.	a) Symphonious	b) Homophonous	c)	Synonyms	d)	Saminymous
	u) Symphomous	o) Homophonous	C)	Synonyms	u)	Summymous
28.	Choose the correct ans	swer?				
	a) My friend has got	a new job	b)	My friend has go	t a new	work
	c) My friend is got a	new job	d)	My friend did go		
29.	Choose the correct ser			VVV 1.1 1.1	1	C 4 0
	a) Do you like a glas		b)	Would you like a	_	
	c) Would you like th	e glass of water?	d)	Do you like the g	giass of	water?
30.	Antonym of Ad-lib?		/			
.	a) Improvise	b) Extemporized	c)	Deliberate	d)	Spontaneous
			,		,	1
31.	We at the party					
	a) Enjoyed ourself	b) Enjoyed ourselves	c)	Played with	d)	None of these
22	Change a correct conta	maa halayy)		
32.	Choose a correct senteral There are seven g		b)	There is seven gir	els in the	e class
	c) There are seven g			There is seven gir		
	4			and the second gar	1 111 0110	
33.	I a letter to the	Principal yesterday				
	a) write	b) forward	c)	mailed	d)	have signed
2.4						
34.	Choose the correct sta		vo 11r			
		nurt, but he continued to walk				
	c) He was hurt, he co		. /			
		nued to walk, he was hurt.	,			
35.	Choose the correct sta					
		en 8 to 10 policemen prese				
		en 8 and 10 policemen pre				
		8 to 10 policemen preser				
	u) There were alleast	8 and 10 policemen prese	5 111.			
36.	Meaning of See Eye to	o Eye				
	a) To agree fully	b) Not agreeing fully	c)	In a battle field	d)	Angry
					,	
37.		grade in the examination		.		
	a) Earned	b) Given	,	Received	d)	None of these
		Version 1	D - 2 0	1 0		

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38.	We at the party late a) arrived b)	went	c)	played	d)	saw
39.	The patient in his sle a) Woke up b)	ep Died	c)	Cried off	d)	None of these
40.	I was delighted her a) On b)	answer.	c)	For	d)	In
41.	I have no doubt it. a) At b)	On	c)	Upon	d)	About
42.	I assure you your saf a) Off b)	ety Of	c)	From	d)	With
43.	He competed me fo a) Off b)	r the prize. With	c)	То	d)	Of
44.	He is difficulties a) In b)	On	c)	From	d)	With
45.	He is true his words a) With b)	On	c)	То	d)	For
46.	The fan is my head a) Above b)	On	c)	То	d)	With
47.	You can see the house a) To b)	the trees On	c)	With	d)	Among
48.	Which of these is not a cha a) Brevity b)	aracteristic of a good es Dignified style	-	Fakeness	d)	Personal touch
49.	Which of these should be a a) Slang b)	avoided in a good essay Dignified words	? c)	Brevity	d)	Unity
50.	Which of these is not a type a) Narrative essay b)	e of essay? Descriptive essay	c)	Argumentative essay	d)	Personal essay
51.	Which of these essays tells a) Narrative essays c) Reflective essays		b) d)	Descriptive essays Argumentative essay	'S	
52.	In which of these essays, t a) Narrative essays c) Reflective essays		b)		ning	3 ?
53.	essays are a collect	on of one's thoughts Expository	c)	Argumentative		Reflective
	,	· ·	,	<i>-</i>	',	

Version B - 4 of 8

54.	Which of these explains a subject?	
	a) Narrative essays	b) Expository essays
	c) Argumentative essays	d) Reflective essays
	,	1 2 3 Y
55.	Which kind of essay uses the five senses (to	uch, smell, taste, sound, sight) to enhance the
	imagery of the setting?	,,,,,,
	a) Narrative essays	b) Descriptive essays
	· ·	•
	c) Expository essays	d) Argumentative essays
		Y
56.	Indirect speech is also called as:	
	a) Reported speech b) Quoted speech	c) Simple speech d) Principal speech
57.	A report provides information on scienti	fic tests carried out by engineers or scientists
	a) progress b) periodic	c) laboratory d) trouble
		*
58.	Convert the following direct speech to indirect	
	She said, "My mother is cooking food".	
	a) She said that her mother was cooking food.	
	b) She said that my mother was cooking food.	Y
	c) She said that her mother is cooking food.	y
	d) She said that my mother is cooking food.	
59.	Change the speech for the following statement	
	She said, "The man died in the afternoon".	
	a) She said the man died in the afternoon.	
	b) She said that the man had died in the aftern	oon.
	c) She had said the man died in the afternoon.	
	d) She said the man was dead in the afternoon	
	7'	
60.	Convert the following statement in direct speec	h to indirect:
00.	He said to me, "I don't believe you".	n to mancet.
		b) He said I don't believe you.
	a) He said he didn't believe me.	•
	c) He said he don't believe me.	d) He said I didn't believe you.
61.	If the subject is of singular number, third person	
	a) Singular number, first person.	b) Singular number, third person.
	c) Plural number, first person.	d) Plural number, third person.
		y
62.	Fill in the blank: Neither he nor I present.	
	a) were b) was	c) are d) am
		<i>a)</i>
63.	Convert the affirmative sentence into a negative	e sentence:
05.	Mili is prettier than Neha.	o sentence.
	- v	h) Mili is not as motty as Naha
	a) Neha is not as pretty as Mili	b) Mili is not as pretty as Neha.
	c) Neha is not as prettier as Mili.	d) Mili is not prettier than Neha.
		.•
64.	Convert the following interrogative sentence to	an assertive sentence:
	Who would not love his country?	
	a) No one loves his country.	b) Everyone loves his country.
	c) Someone loves his country.	d) Everyone loves the country.
		B - 5 of 8

65.	Convert the following compound sentence into a We must eat, or we cannot live.	a simple sentence:
	a) We must live to eat.	b) We must eat to live.
	c) We can't live if we eat.	d) We can't eat if we live.
	c) we can thive if we eat.	d) we can't eat if we five.
	General English Questions on Adjectives:	3).
	General English Questions on Aujectives.	
66.	Correct the sentence if necessary. She is senior	
	a) She is senior than me.	b) She is senior to me.
	c) She is senior then me.	d) None of these.
67.	Correct the sentence if necessary. He is junior th	nan me.
	a) He is junior than me.	b) He is junior then me.
	c) He is junior to me.	d) None of these.
60		
68.	Correct the sentence if necessary. He is senior to	
	a) He is senior than her.	b) He is senior then her.
	c) He is senior to her.	d) None of these.
69.	This is preferable than that.	,
	a) This is preferable than that.	b) This is preferable then that.
	c) This is preferable to that.	d) None of these.
70.	My sister is elder than me.	1) 1/2
	a) My sister is elder than me.	b) My sister is elder to me.
	c) My sister is elder then me.	d) None of these.
	General English Questions on Pronoun Corre	ection:
71.	Correct the sentence if necessary. One should re	•
	a) One should respect his elders.	b) One should respect her elders.
	c) One should respect one's elders.	d) None of these.
72	C	
72.	Correct the sentence if necessary. One should real One should respect his own country.	
	c) One should respect their own country.	b) One should respect her own country. d) One should respect one's country.
	c) One should respect their own country.	a) One should respect one's country.
73. ¹	Correct the sentence if necessary. One must love	e his parents.
	a) One must love her parents.	b) One must love his parents.
	c) One must love their parents.	d) One must love one's parents.
		, <u>-</u>
74.	Correct the sentence if necessary. I and Jimmy v	
	a) I and Jimmy went home.	b) Jimmy and I went home.
	c) a and b	d) None of these.
75	Compatible control AC T 1.1	C.: 1 _
75.	Correct the sentence if necessary. I and she are to	
	a) I and she are friends.	b) She and I are friends.
	c) She and me are friends. Version 1	d) None of these.
	version i	5 VVIV

76.	Correct the sentence if necessary. I and Dhoni w	<u> </u>	
	a) I and Dhoni went to college.	b) Dhoni and I went to c	ollege.
	c) Dhoni and me went to college.	d) None of these.	
77.	Correct the sentence if necessary. Both he and y	you must attend the meetin	σ
, , •	a) Both he and you must attend the meeting.	b) Both you and he must	
	c) a and b	d) None of these.	C
78.	Correct the sentence if necessary. Peter invited		
	a) Peter invited you and me to dinner.	b) Peter invited me and y	you to dinner.
	c) a and b	d) None of these.	
79.	Correct the sentence if necessary. I, you and she	can do it	
,,,	a) I, you and she can do it.	b) You, I and she can do	it.
	c) You, she and I can do it.	d) She, you and I can do	
80.	Correct the sentence if necessary. None of the th		
	a) None of the three questions are simple.	b) None of the three que	stions is simple.
	c) a and b	d) None of these.	
		/	
	General English Grammar: Select the correc	t option.	
81.	Her thinking leans democracy.	a) for	d) Nana of these
	a) with b) towards	c) for	d) None of these
82.	He got too tired over work.		
	a) because of b) because off	c) on	d) for
83.	his principles, he has to be very careful.		1) 34 - 0.4
	a) with regard of b) with regard on	c) with regard to	d) None of these
84.	Building has been built the new plan.	, , ,	
011	a) accordance to b) in accordance with	c) for	d) about
			,
85.	He crossed the broken bridge warning.	*	
	a) in spite of b) in spite off	c) on	d) about
86.	Which of these do not deal with precise informa	tion?	
00.	a) Engineer b) Scientist	c) Technician	d) Fiction writer
	a) Engineer	o) 100mmonan	a) I lettoli willer
87.	In an office, an employee communicates horizon	ntally with his	
	a) superiors b) subordinates	c) colleagues	d) assistant
00		111	
88.	An average length of sentence in a paragraph sh a) 15 to 20 words b) 25 to 30 words	c) 2 to 5 words	d) 5 to 10 words
	a) 13 to 20 words	6) 2 to 3 words	a) 5 to 10 words
89.	Which of these is not a feature of a paragraph?		
	a) Length b) Unity	c) Incoherence	d) Correctness

Version B - 7 of 8

90.	Which of these is not a) Length	an important feature of a p b) Breadth	aragraph? c) Unity	d) Coherence
91.	Resume is called curr a) India	iculum vitae in b) France	c) North America	d) South America
92.	Which of these letters a) Solicited letters c) Letters of enquiry	are in response to an adve	rtisement? b) Unsolicited letters d) Letters of complaint	
93.	Which of these letters a) For complain	of application must include b) For employment	le a statement of the writer c) For enquiry	e's age? d) For adjustment
94.	Technical writing den a) figurative	nands use of lang b) poetic	uage. c) factual	d) dramatic
95.	Which of these must be a) Facts c) Punctuation	be avoided in technical wri	ting? b) Grammar d) Personal feelings	
96.	Which of these words a) Apex	is used in technical writing b) Top	g? c) Slanting	d) Bottom
97.	Which of these is a tea) Lateral	chnical word for slanting? b) Sloping	c) Tilting	d) Bent
98.	Which of these should a) Planning of speech c) Long sentences	l be avoided for an effective	ye speech? b) Preparation of speech d) Organization	
99.	Which of these should a) Confidence	d be avoided during the del b) Clarity	ivery of a speech? c) Pauses	d) Rudeness
100.	Which of these is not a) Short speech c) Written speech	a type of public speech?	b) Informal speech d) Professional speech	
		Version B –	8 of 8	



						2120	1120
USN						Question Paper Version : C	

Second Semester B.E./B.Tech./B.Arch/B.Planning Degree Examination, July/August 2022

Professional Writing Skills in English

(COMMON TO ALL BRANCHES)

Time: 2 hrs.] [Max. Marks: 100

INSTRUCTIONS TO THE CANDIDATES

- 1. Answer all the Hundred questions, each question carries **ONE mark**.
- 2. Use only Black ball point pen for writing / darkening the circles.
- **3.** For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.
- 4. Darkening two circles for the same question makes the answer invalid.
- 5. Damaging/overwriting, using whiteners on the OMR sheets are strictly prohibited.

General English Questions on Pronoun Correction:

- 1. Correct the sentence if necessary. One should respect his elders.
 - a) One should respect his elders.
- b) One should respect her elders.
- c) One should respect one's elders.
- d) None of these.
- 2. Correct the sentence if necessary. One should respect his own country.
 - a) One should respect his own country.
- b) One should respect her own country.
- c) One should respect their own country.
- d) One should respect one's country.
- **3.** Correct the sentence if necessary. One must love his parents.
 - a) One must love her parents.

b) One must love his parents.

c) One must love their parents.

- d) One must love one's parents.
- **4.** Correct the sentence if necessary. I and Jimmy went home.
 - a) I and Jimmy went home.

b) Jimmy and I went home.

c) a and b

- d) None of these.
- **5.** Correct the sentence if necessary. I and she are friends.
 - a) I and she are friends.

b) She and I are friends.

c) She and me are friends.

- d) None of these.
- **6.** Correct the sentence if necessary. I and Dhoni went to college.
 - a) I and Dhoni went to college.

- b) Dhoni and I went to college.
- c) Dhoni and me went to college.
- d) None of these.

Version C - 1 of 8

7.	Correct the sentence if necessary. Both he and	you must attend the meet	ing.
	a) Both he and you must attend the meeting.	b) Both you and he mu	ist attend the meeting.
	c) a and b	d) None of these.	
	,	() Y	
8.	Correct the sentence if necessary. Peter invited	me and you to dinner	
•	a) Peter invited you and me to dinner.	b) Peter invited me and	d you to dinner
	c) a and b	d) None of these.	a you to annier.
	c) a and o	d) None of these.	
Λ	Correct the contense if necessary I way and sh	a can do it	<
9.	Correct the sentence if necessary. I, you and sh		1
	a) I, you and she can do it.	b) You, I and she can o	/
	c) You, she and I can do it.	d) She, you and I can o	do it.
10.	Correct the sentence if necessary. None of the t	_	
	a) None of the three questions are simple.	b) None of the three qu	uestions is simple.
	c) a and b	d) None of these.	
	Questions on Verb Correction:	4	
11.	Correct the sentence if necessary. The girl is tal	cing biscuits every day.	
	a) The girl is taking biscuits every day.	b) The girl takes biscu	its every day
	c) The girls is taken biscuits every day.	d) None of these.	its every day.
	c) The girls is taken discuits every day.	d) I tolle of these.	
12.	Correct the sentence if necessary. He takes mill	z every day	
14.			vory doy
	a) He takes milk every day.	b) He is taking milk e	very day.
	c) He is taken milk every day.	d) None of these.	
12			
13.	Correct the sentence if necessary. They are con		1 1
	a) They are coming here regularly.	b) They are come here	e regularly.
	c) They come here regularly.	d) None of these	
14.	I am studying every morning from 5-8 A.M.		
	a) I am studying every morning from 5-8 A.M.	<u> </u>	
	b) I have been studying every morning from 5-8	8 A.M.	
	c) I study every morning from 5-8 A.M.		
	d) None of these.	Y	
15.	Every evening, he is going for a walk.	y	
	a) Every evening, he is going for a walk.		
	b) Every evening, he goes for a walk.		
	c) Every evening, he has been going for a walk.		
	d) None of these.	•	
	d) Notic of these.		
16.	A writer must not convey information with		
10.	A writer must not convey information with		d) truth
	a) precision b) clarity	c) randomness	d) truth
17	Which of these are to be read 1 1	Correities ~0	
17.	Which of these are to be avoided in any style of	_	1) D: 1
	a) Truth b) Clarity	c) Compassion	d) Dishonesty

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18.	Which of these report a) Formal technical re c) Personal reports	s are used in business? eports	b) Informal reports d) Musical reports	
19.	Which of the followin a) Filling in a blank fo c) Form of a memorar		ting a non-formal letter? b) Form of a letter d) Formal of a notice	
20.	A non-formal report v a) friendly letter	written in the form of letter b) business letter	c) complaint letter	d) notice
21.	Which of these does n a) News items	ot come under reports? b) Memorandums	c) Notice	d) Report cards
22.	Which of these is not a) Presentation	a parameter of a formal re b) Complaint	port? c) Information	d) Request
23.	Meaning of "Fly by n a) Night journey c) Cat's eye	ight"	b) A bird busy in night d) Swindler	
24.	Synonym of Exhort a) Weak Plea	b) To urge strongly	c) Beg	d) Borrow
25.	Antonym of Blunt a) Easy	b) Lazy	c) Sharp	d) Speedy
26.	Antonym of Brave a) Achieve	b) Gain	c) Give	d) Cowardly
27.	Synonym of Abjure a) To give	b) To take back	c) Happy	d) Sorry
28.	Synonym of Abrogate a) Create	b) Run	c) Fascinate	d) Abolish
29.	Unfortunately, he a) Borrowed	a lot of money to b) Owed	the bank. c) Deposited	d) Lent
30.	I the apartme	ent all day yesterday. b) Washed out	c) Cleaned up	d) None of these
31.	The train as a) went	fast as the bus. b) running	c) moves	d) going
32.		to the school. b) going	c) gone	d) go

33.	She in the su	n for 1 hour		
	a) sitting	b) has been sitting	c) has been sit	d) has sit
34.	it help you	in your studies?	2.5 Y	
	a) will	b) was	c) is	d) are
35.	I never seen	such a picture before		
	a) did	b) was	c) have	d) has
36.	Words of same sou	nd is?	Y	
	a) Soundnyms	b) Antonyms	c) Homonyms	d) None of these
37.	Sounding the same	but spelt differently?		
	a) Symphonious	b) Homophonous	c) Synonyms	d) Saminymous
38.	Choose the correct	answer?		
	a) My friend has g	got a new job	b) My friend has	got a new work
	c) My friend is go	et a new job	d) My friend did g	got a new job
39 .	Choose the correct	sentence.		
	a) Do you like a g	lass of water?	b) Would you like	e a glass of water?
	c) Would you like	the glass of water?	d) Do you like the	e glass of water?
40.	Antonym of Ad-lib	?		
	a) Improvise	b) Extemporized	c) Deliberate	d) Spontaneous
41.	We at the pa	rty.		
	a) Enjoyed ourself		c) Played with	d) None of these
42.	Choose a correct se	ntence below:		
	a) There are sever	girls in the class.	b) There is seven a	girls in the class.
	c) There are sever	n girl in the class.	d) There is seven a	girl in the class.
43.	I a letter to the	he Principal yesterday		
	a) write	b) forward	c) mailed	d) have signed
44.	Choose the correct	statement :		
		s hurt, but he continued to	walk.	
	b) Although he wa	s hurt, he continued to wa	lk.	
	c) He was hurt, he	continued to walk.		
	d) Although he cor	tinued to walk, he was hu	rt.	
45.	Choose the correct	statement :		
		ween 8 to 10 policemen pre	esent.	
	b) There were bety	ween 8 and 10 policemen p	present.	
		ong 8 to 10 policemen pres		
	d) There were atle	ast 8 and 10 policemen pre	esent.	
46.	Meaning of See Ey	e to Eye		
	a) To agree fully	b) Not agreeing fully		d d) Angry
	A	Version	n C - 4 of 8	-

47.	He a very good grade in	the examination			
	a) Earned b) Giv		Received	d)	None of these
48.	We at the party late		0		
	a) arrived b) we	ent c)	played	d)	saw
40			>		
49.	The patient in his sleep	1	C: 1	1\	NI C.1
	a) Woke up b) Die	ed (c)	Cried off	a)	None of these
50.	I was delighted her answ	wer.		,	
	a) On b) At	c)	For	d)	In
		O.V			
51.	I have no doubt it.	CV.			
	a) At b) Or	c)	Upon	d)	About
52.	I assure you your safety	, /	4		
34.	a) Off b) Of	c)	From	<u>d)</u>	With
	<i>u</i>) 011		110111	u)	** 1011
53.	He competed me for the	e prize.			
	a) Off b) W:		To	d)	Of
54.	He is difficulties	, ,	T.	1\	XX 7° . 1
	a) In b) O	n c)	From	d)	With
55.	He is true his words				
33.		n c)	To	d)	For
	<i>a</i>) (1211			,,	101
56.	The fan is my head				
	a) Above b) Or	c)	To	d)	With
		5			
57.		e trees	With	4)	Amono
	a) To b) Or	c)	With	u)	Among
58.	Which of these is not a charact	teristic of a good essay?	2		
		gnified style c)	Fakeness	d)	Personal touch
	2,	, , ,	<i>*</i>		
59.	Which of these should be avoi			•	
	a) Slang b) Dig	gnified words c)	Brevity	d)	Unity
60.	Which of these is not a type of	essav?			
00.		-	Argumentative essay	d)	Personal essay
	3, 2, 3, 2, 3,	,)	
61.	Which of these essays tells a st	tory?			
	a) Narrative essays	b)	Descriptive essays		
	c) Reflective essays	d)	Argumentative essays	S	
(2	In which of these assessments	rritar arrivaa at a aarralu	ugion by logical reces	ina	.9
62.	In which of these essays, the way a) Narrative essays	b)	Descriptive essays	mı	; <u>:</u>
	c) Reflective essays	,	Argumentative essays		

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63.	essays are a collection of one's thoughts		
	a) Narrative b) Expository	c) Argumentative	d) Reflective
64.	Which of these explains a subject?		
	a) Narrative essays	b) Expository essays	
	c) Argumentative essays	d) Reflective essays	
	o) Ingumentum o occupa	O Promotive description	
65.	Which kind of essay uses the five senses (to	ich, smell, taste, sound,	sight) to enhance the
	imagery of the setting?	/	
	a) Narrative essays	b) Descriptive essays	
	c) Expository essays	d) Argumentative ess	says
66.	Indirect speech is also called as:		
	a) Reported speech b) Quoted speech	c) Simple speech	d) Principal speech
		Y	
67.	A report provides information on scientif	fic tests carried out by en	gineers or scientists
	a) progress b) periodic	c) laboratory	d) trouble
		7	
68.	Convert the following direct speech to indirect:		
	She said, "My mother is cooking food".		
	a) She said that her mother was cooking food.		
	b) She said that my mother was cooking food		
	c) She said that her mother is cooking food.		
	d) She said that my mother is cooking food.		
69.	Change the speech for the following statement:		
	She said, "The man died in the afternoon".		$\overline{\Sigma}$
	a) She said the man died in the afternoon.	• 6	
	b) She said that the man had died in the afterno	oon.	
	c) She had said the man died in the afternoon.		
	d) She said the man was dead in the afternoon.		
70.	Convert the following statement in direct speech	n to indirect:	
	He said to me, "I don't believe you".		
	a) He said he didn't believe me.	b) He said I don't belie	_
	c) He said he don't believe me.	d) He said I didn't belie	eve you.
=1	YOU		11.4 1.1 0
71.	If the subject is of singular number, third person		
	a) Singular number, first person.	b) Singular number, thi	•
	c) Plural number, first person.	d) Plural number, third	person.
- 2	PH: 4 11 00 4 1		
72.	Fill in the blank: Neither he nor I present.	,	1)
	a) were b) was	c) are	d) am
72	Consent the action of		
73.	Convert the affirmative sentence into a negative	sentence:	
	Mili is prettier than Neha.	1.) M(1): i=4	aa Malaa
	a) Neha is not as pretty as Mili.	b) Mili is not as pretty	
	c) Neha is not as prettier as Mili.	d) Mili is not prettier th	nan Nena.

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74.	Convert the following interrogative sentence to an assertive sentence: Who would not love his country?							
	a) No one loves his c	-	b) Everyone loves his country.					
	c) Someone loves his		d) Everyone loves the country.					
75.	Convert the followin	g compound sentence into	a simple sentence:					
,	We must eat, or we o							
	a) We must live to ea		b) We must eat to live.					
	c) We can't live if w		d) We can't eat if we li	A				
	,	0,		>				
	General English Gr	rammar: Select the correc	t option.					
		SV.						
76.	Her thinking leans _	democracy.						
	a) with	b) towards	c) for	d) None of these				
77.	He got too tired	over work.		1) ()				
	a) because of	b) because off	c) on	d) for				
7 0	1	2 1 1 1 2						
78.		s, he has to be very careful.	-):41 1 4 -	1) N C. 1				
	a) with regard of	b) with regard on	c) with regard to	d) None of these				
79.	Building has been bu	the new plan.						
19.	a) accordance to	b) in accordance with	c) for	d) about				
	a) accordance to	b) in accordance with	C) IOI	a) about				
80.	He crossed the broke	en bridge warning.		_				
	a) in spite of	b) in spite off	c) on	d) about				
) F			,,				
81.	Which of these do no	ot deal with precise information	ition?					
	a) Engineer	b) Scientist	c) Technician	d) Fiction writer				
82.	In an office, an empl	oyee communicates horizo	ntally with his					
	a) superiors	b) subordinates	c) colleagues	d) assistant				
83.		f sentence in a paragraph sh		1) 7 . 10 . 1				
	a) 15 to 20 words	b) 25 to 30 words	c) 2 to 5 words	d) 5 to 10 words				
0.4	WA							
84.	Market State of the Control of the C	t a feature of a paragraph?) T 1	1) (7)				
	a) Length	b) Unity	c) Incoherence	d) Correctness				
85.	Which of these is not	t an important feature of a p	paragraph?					
03.	a) Length	b) Breadth	c) Unity	d) Coherence				
	a) Length	b) Dicadili	c) Omity	d) Concrence				
86.	Resume is called cur	riculum vitae in						
00.	a) India	b) France	c) North America	d) South America				
	, 		7, 1,010111111111101100	a, cominimization				
87.	Which of these letter	rs are in response to an adve	ertisement?					
	a) Solicited letters		b) Unsolicited letters					
	c) Letters of enquiry		d) Letters of complaint					

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88.	Which of these letters	of application must include	le a statement of the writer	's age?
	a) For complain	b) For employment	c) For enquiry	d) For adjustment
89.	Technical writing den	nands use of lang	uage.	
	a) figurative	b) poetic	c) factual	d) dramatic
			0,0	
90.		be avoided in technical wri	19	
	a) Facts	A .	b) Grammar	
	c) Punctuation		d) Personal feelings	
91.	Which of these words	is used in technical writin	α?	
71.	a) Apex	b) Top	c) Slanting	d) Bottom
	a) Tipex	o) rop	c) Stanting	d) Bottom
92.	Which of these is a te	chnical word for slanting?		
	a) Lateral	b) Sloping	c) Tilting	d) Bent
93.		l be avoided for an effective		
	a) Planning of speech		b) Preparation of speech	
	c) Long sentences	5	d) Organization	
0.4	Which of these should	l ha assaidad dumina tha dal	ivany of a smaaah?	
94.	a) Confidence	l be avoided during the del b) Clarity	c) Pauses	d) Rudeness
	a) Confidence	b) Clarity	c) rauses	u) Rudelless
95.	Which of these is not	a type of public speech?		
	a) Short speech	T. O.	b) Informal speech	
	c) Written speech	, ,	d) Professional speech	
	General English Que	estions on Adjectives:		
96.	Correct the sentence i	f necessary. She is senior t	han me	
, , , , , , , , , , , , , , , , , , , 	a) She is senior than n	-	b) She is senior to me.	
	c) She is senior then n		d) None of these.	
		9>		
97.		f necessary. He is junior th		
	a) He is junior than m	e.	b) He is junior then me.	
	c) He is junior to me.		d) None of these.	
00	Correct the gentance	f nagaggary. Ha is sonior to	har	
98.	a) He is senior than he	f necessary. He is senior to	b) He is senior then her.	
	c) He is senior to her.	·	d) None of these.	
	c) The is semior to her.		d) None of these.	
99.	This is preferable than	n that.		
	a) This is preferable the		b) This is preferable then	that.
	c) This is preferable to	o that.	d) None of these.	
100	3.6	SA		
100.	My sister is elder than	▼	1.) Maratine : 11 /	
	a) My sister is elder t		b) My sister is elder to n	ile.
	c) My sister is elder t	nen me.	d) None of these.	

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USN	n:D		Quest	tion Paper Version:
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Second Semester B.E./B.Tech./B.Arch/B.Planning Degree Examination, July/August 2022

Professional Writing Skills in English

(COMMON TO ALL BRANCHES)

Time: 2 hrs.] [Max. Marks: 100

INSTRUCTIONS TO THE CANDIDATES

- 1. Answer all the Hundred questions, each question carries **ONE mark**.
- 2. Use only Black ball point pen for writing / darkening the circles.
- **3.** For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.
- 4. Darkening two circles for the same question makes the answer invalid.
- 5. Damaging/overwriting, using whiteners on the OMR sheets are strictly prohibited.

General English Questions on Adjectives:

1. Correct the sentence if necessary. She is senior	than me
---	---------

a) She is senior than me.

b) She is senior to me.

c) She is senior then me.

- d) None of these.
- 2. Correct the sentence if necessary. He is junior than me.
 - a) He is junior than me.

b) He is junior then me.

c) He is junior to me.

- d) None of these.
- **3.** Correct the sentence if necessary. He is senior to her.
 - a) He is senior than her.

b) He is senior then her.

c) He is senior to her.

d) None of these.

- **4.** This is preferable than that.
 - a) This is preferable than that.
 - c) This is preferable to that.

b) This is preferable then that.d) None of these.

5.

- My sister is elder than me.

 a) My sister is elder than me.
- c) My sister is elder then me.

- b) My sister is elder to me.
- d) None of these.

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General English Grammar: Select the correct option.

6.	Her thinking leans	democracy.	(,)	
	a) with	b) towards	c) for	d) None of these
7.	He got too tired	over work		
<i>,</i> •	a) because of	b) because off	c) on	d) for
8.		, he has to be very careful.		1) 31 (4)
	a) with regard of	b) with regard on	c) with regard to	d) None of these
9.	Building has been bui	ilt the new plan.		
•		b) in accordance with	c) for	d) about
		, V		
10.	He crossed the broker			•
	a) in spite of	b) in spite off	c) on	d) about
11.	Which of these do no	t deal with precise informa	tion?	
	a) Engineer	b) Scientist	c) Technician	d) Fiction writer
			,	,
12.		yee communicates horizon		
	a) superiors	b) subordinates	c) colleagues	d) assistant
13.	An average length of	sentence in a paragraph sh	ould be	
	a) 15 to 20 words		c) 2 to 5 words	d) 5 to 10 words
				,
14.		a feature of a paragraph?) T 1	1) (
	a) Length	b) Unity	c) Incoherence	d) Correctness
15.	Which of these is not	an important feature of a p	paragraph?	
	a) Length	b) Breadth	c) Unity	d) Coherence
16.	Resume is called curr	b) France	a) North America	d) South America
	a) India	b) France	c) North America	d) South America
17.	Which of these letters	s are in response to an adve	ertisement?	
	a) Solicited letters		b) Unsolicited letters	
	c) Letters of enquiry		d) Letters of complaint	
18.	Which of these letters	s of application must include	le a statement of the writer	r's age?
10.	a) For complain	b) For employment	c) For enquiry	d) For adjustment
		, *	, .	, 3
19.	Technical writing der			1) 1
	a) figurative	b) poetic	c) factual	d) dramatic
20.	Which of these must	be avoided in technical wr	iting?	
•	a) Facts		b) Grammar	
	c) Punctuation	7	d) Personal feelings	

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21.	Which of these word a) Apex	ls is used in technical write b) Top	ting? c) Slanting	d) Bottom
22.	Which of these is a t a) Lateral	echnical word for slanting b) Sloping	g? c) Tilting	d) Bent
23.	Which of these shou a) Planning of speec c) Long sentences	ld be avoided for an effecth	etive speech? b) Preparation of speed d) Organization	ech
24.	Which of these shou a) Confidence	ld be avoided during the b) Clarity	delivery of a speech? c) Pauses	d) Rudeness
25.	Which of these is no a) Short speech c) Written speech	t a type of public speech?	b) Informal speech d) Professional speec	h
	Questions on Verb	Correction:		
26.	Correct the sentence a) The girl is taking c) The girls is taken		aking biscuits every day. b) The girl takes bisc d) None of these.	uits every day.
27.	Correct the sentence a) He takes milk eve c) He is taken milk		ilk every day. b) He is taking milk d) None of these.	every day.
28.	Correct the sentence a) They are coming c) They come here r		ming here regularly. b) They are come he d) None of these	re regularly.
29.	a) I am studying ever	morning from 5-8 A.M. ry morning from 5-8 A.M. ing every morning from 5 rning from 5-8 A.M.		
30.	b) Every evening, he	e is going for a walk.	k.	
31.	A writer must not co a) precision	nvey information with b) clarity	c) randomness	d) truth
32.	Which of these are to a) Truth	be avoided in any style b) Clarity	of writing? c) Compassion	d) Dishonesty

33.	Which of these reportal Formal technical records Personal reports	ts are used in business? reports	b) Informal reports d) Musical reports	
34.	Which of the following a) Filling in a blank for c) Form of a memora		iting a non-formal letter? b) Form of a letter d) Formal of a notice	
35.	A non-formal report (a) friendly letter	written in the form of lette b) business letter	r is similar to a c) complaint letter	d) notice
36.	Which of these does a) News items	not come under reports? b) Memorandums	c) Notice	d) Report cards
37.	Which of these is not a) Presentation	a parameter of a formal reb) Complaint	eport? c) Information	d) Request
38.	Meaning of "Fly by ra) Night journey c) Cat's eye	night"	b) A bird busy in night d) Swindler	
39.	Synonym of Exhort a) Weak Plea	b) To urge strongly	c) Beg	d) Borrow
40.	Antonym of Blunt a) Easy	b) Lazy	c) Sharp	d) Speedy
41.	Antonym of Brave a) Achieve	b) Gain	c) Give	d) Cowardly
42.	Synonym of Abjure a) To give	b) To take back	c) Happy	d) Sorry
43.	Synonym of Abrogat a) Create	e b) Run	c) Fascinate	d) Abolish
44.	Unfortunately, hea) Borrowed	a lot of money to b) Owed	the bank. c) Deposited	d) Lent
45.	I the apartma) Clear	ent all day yesterday. b) Washed out	c) Cleaned up	d) None of these
46.	The train as a) went	fast as the bus. b) running	c) moves	d) going
47.	He was seena) went	to the school. b) going	c) gone	d) go
48.	She in the sun a) sitting	for 1 hour b) has been sitting	c) has been sit	d) has sit

Version D - 4 of 8

49.	it help you in	your studies?				
	a) will	b) was	c)	is	d)	are
50.		ch a picture before		(,)	-	_
	a) did	b) was	c)	have	d)	has
51.	Words of same sound	is?				
	a) Soundnyms	b) Antonyms	c)	Homonyms	d)	None of these
52.	Sounding the same bu	t spelt differently?			,>	
	a) Symphonious	b) Homophonous	c)	Synonyms	d)	Saminymous
53.	Choose the correct and	ewar?				
33.	a) My friend has got		b)	My friend has got	a new	work
	c) My friend is got a		d)	My friend did got		
	c) Why mend is got t	t new job	u)	iviy inicila dia got	a new	J00
54.	Choose the correct ser	ntence				
0	a) Do you like a glas		b)	Would you like a g	glass o	f water?
	c) Would you like th		d)	Do you like the gla	_	
				- J		
55.	Antonym of Ad-lib?		/			
	a) Improvise	b) Extemporized	c)	Deliberate	d)	Spontaneous
						_
56.	Weat the party					
	a) Enjoyed ourself	b) Enjoyed ourselves	c)	Played with	d)	None of these
	C1					
57.	Choose a correct sente			TT1 : : 1)· (1	1
	a) There are seven g		1 (6)	There is seven girls		
	c) There are seven g	iri in the class.	d)	There is seven girl	in the	ciass.
58.	I a letter to the	Principal yesterday				
	a) write	b) forward	c)	mailed	d)	have signed
	,		- /	4	/	
59.	Choose the correct sta	tement :				
	a) Although he was l	nurt, but he continued to w	alk.			
	b) Although he was l	nurt, he continued to walk.	. ,	<i>'</i>		
	c) He was hurt, he co					
	d) Although he contin	nued to walk, he was hurt.	/			
60.	Choose the correct sta	,				
		en 8 to 10 policemen prese				
		en 8 and 10 policemen pre				
	,	8 to 10 policemen present				
	d) There were atleast	8 and 10 policemen prese	711 l .			
61.	Meaning of See Eye to	o Eve				
		b) Not agreeing fully	c)	In a battle field	d)	Angry
			,		,	
62.	He a very good	grade in the examination				
	a) Earned	b) Given	,	Received	d)	None of these
		Version I	D - 5 of	f 8		

63.	We at the party late					
	a) arrived b)	went	c)	played	d)	saw
64.	The patient in his sle	ер				
	a) Woke up b)		c)	Cried off	d)	None of these
65.	I was delighted her	answer.	S.V			
		At	c)	For	d)	In
66.	I have no doubt it.					
	a) At b)	On	c)	Upon	d)	About
67.	I assure you your saf	ety Sety				
• • •		Of	c)	From	d)	With
68.	He competed me for	r the prize.				
		With	c)	То	d)	Of
69.	He is difficulties	-	*			
0,7	a) In b)	On	c)	From	d)	With
70.	He is true his words	7				
	a) With b)	On	c)	То	d)	For
71.	The fan is my head					
	a) Above b)	On	c)	То	d)	With
72.	You can see the house	the trees				
	a) To b)	On	c)	With	d)	Among
73.	Which of these is not a cha	aracteristic of a good o	essav?			
,		Dignified style	-	Fakeness	d)	Personal touch
74.	Which of these should be	avoided in a good essa	av?			
, 		Dignified words	-	Brevity	d)	Unity
75.	Which of these is not a type	be of essay?				
,	74	Descriptive essay	c) .	Argumentative essay	d)	Personal essay
76.	Which of these essays tells	s a story?				
	a) Narrative essays		b)	Descriptive essays		
	c) Reflective essays		d)	Argumentative essay	'S	
77.	In which of these essays, t	he writer arrives at a c	conclu	sion by logical reason	ning	<u>5</u> ?
	a) Narrative essays			Descriptive essays		
	c) Reflective essays	7	d) A	Argumentative essays	5	
78.	essays are a collect	on of one's thoughts				
-		Expository	c)	Argumentative	d)	Reflective

Version D - 6 of 8

79.	Which of these explains a subject?		
	a) Narrative essays	b) Expository essays	
	c) Argumentative essays	d) Reflective essays	
		C. 3	
80.	Which kind of essay uses the five senses (touch, smell, taste, sound, sight) to en	hance the
	imagery of the setting?	0.0	
	a) Narrative essays	b) Descriptive essays	
	c) Expository essays	d) Argumentative essays	
		Y .	
81.	Indirect speech is also called as:		
	a) Reported speech b) Quoted speech	c) Simple speech d) Principa	ıl speech
0.0			
82.		ntific tests carried out by engineers or sc	
	a) progress b) periodic	c) laboratory d) troub	le
02			
83.	Convert the following direct speech to indire	et :	
	She said, "My mother is cooking food".		
	a) She said that her mother was cooking for		
	b) She said that my mother was cooking for		
	c) She said that her mother is cooking food.	$\overline{\Sigma}$	
	d) She said that my mother is cooking food.	Y	
84.	Change the speech for the following statemer	at :	
04.	She said, "The man died in the afternoon".	и.	
	a) She said the man died in the afternoon.		
	b) She said that the man had died in the after	rnoon	
	c) She had said the man died in the afternoon		
	d) She said the man was dead in the afternoon		
	a) She said the man was deed in the diterno		
85.	Convert the following statement in direct spe	ech to indirect:	
00.	He said to me, "I don't believe you".	9	
	a) He said he didn't believe me.	b) He said I don't believe you.	
	c) He said he don't believe me.	d) He said I didn't believe you.	
	À 0,		
86.	If the subject is of singular number, third per	son; in what number and person will the	verb be?
	a) Singular number, first person.	b) Singular number, third person.	
	c) Plural number, first person.	d) Plural number, third person.	
87.	Fill in the blank: Neither he nor I prese	ht.	
	a) were b) was	c) are d) am	
88.	Convert the affirmative sentence into a negat	ive sentence:	
	Mili is prettier than Neha.		
	a) Neha is not as pretty as Mili.	b) Mili is not as pretty as Neha.	
	c) Neha is not as prettier as Mili.	d) Mili is not prettier than Neha.	
89.	Convert the following interrogative sentence	to an assertive sentence:	
	Who would not love his country?	1. 5	
	a) No one loves his country.	b) Everyone loves his country.	
	c) Someone loves his country.	d) Everyone loves the country.	
	Versi	on D - 7 of 8	

90.							
	We must eat, or we cannot live.						
	a) We must live to eat.	b) We must eat to live.					
	c) We can't live if we eat.	d) We can't eat if we live.					
		2. VY					
	General English Questions on Pronoun Corre	ction:					
	g . Comment	V					
91.	Correct the sentence if necessary. One should re-	spect his elders.					
	a) One should respect his elders.	b) One should respect her elders.					
	c) One should respect one's elders.	d) None of these.					
0.0							
92.	Correct the sentence if necessary. One should res						
	a) One should respect his own country.	b) One should respect her own country.					
	c) One should respect their own country.	d) One should respect one's country.					
93.	Correct the sentence if necessary. One must love	his parents					
/5.	a) One must love her parents.	b) One must love his parents.					
	c) One must love their parents.	d) One must love one's parents.					
	o) one must be realist guidants.	a) one must to be one of purchase.					
94.	Correct the sentence if necessary. I and Jimmy w	vent home.					
	a) I and Jimmy went home.	b) Jimmy and I went home.					
	c) a and b	d) None of these.					
0.=							
95.	Correct the sentence if necessary. I and she are fi						
	a) I and she are friends.	b) She and I are friends.d) None of these.					
	c) She and me are friends.	d) None of these.					
96.	Correct the sentence if necessary. I and Dhoni w	ent to college					
	a) I and Dhoni went to college.	b) Dhoni and I went to college.					
	c) Dhoni and me went to college.	d) None of these.					
		7					
97.	Correct the sentence if necessary. Both he and yo						
	a) Both he and you must attend the meeting.	b) Both you and he must attend the meeting.					
	c) a and b	d) None of these.					
98.	Correct the sentence if necessary. Peter invited in	ne and you to dinner					
<i>7</i> 0.	a) Peter invited you and me to dinner.	b) Peter invited me and you to dinner.					
	c) a and b	d) None of these.					
		2) - 10 0 - 10					
99.	Correct the sentence if necessary. I, you and she	can do it.					
	a) I, you and she can do it.	b) You, I and she can do it.					
	c) You, she and I can do it.	d) She, you and I can do it.					
100	Correct the centence if necessary News of the th	raa quastians ara simpla					
100.	Correct the sentence if necessary. None of the that a) None of the three questions are simple.	b) None of the three questions is simple.					
	c) a and b	d) None of these.					
	2) I and 0	a, 1,000 01 meso.					
	Version D	N 0 - C 0					
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First/Second Semester B.E./B.Tech./B.Arch./B.Planning Degree Examination, July/August 2022

Innovation and Design Thinking

(COMMON TO ALL BRANCHES)

Time: 1 hr.] [Max. Marks: 50

	INSTRUCTIONS TO THE CANDIDATES
1.	Answer all the fifty questions, each question carries one mark.
2.	Use only Black ball point pen for writing / darkening the circles.
3.	For each question, after selecting your answer, darken the appropriate circle
	corresponding to the same question number on the OMR sheet.
4.	Darkening two circles for the same question makes the answer invalid.
5.	Damaging/overwriting, using whiteners on the OMR sheets are strictly
	prohibited.
1.	What are the steps in Design Thinking Process in sequence? a) Define – Empathize – Ideate – Prototype – Test and Implement b) Test and Implement – Define – Empathize – Ideate – Prototype c) Empathize – Define – Ideate – Prototype – Test and Implement d) Ideate – Define – Empathize – Test and Implement – Prototype
2.	Which of the following Firm is associated most with Design Thinking?
	a) IKEA b) IDEO c) IDEA d) ASCI
3.	In which step of Design Thinking approach, actual requirements together with un-met needs of customer/end-user is addressed:
4	a) Empathize b) Ideate c) Define d) Prototype
4.	Which of the following is best suited to produce more innovative design solutions: a) Monodisciplinary and untrained teams b) Monodisciplinary and trained teams

5. MVP stands for :

a) Minimum Value Product

b) Moderate Value Product

c) Minimum Viable Product

d) Maximum Viable Production

d) Multidisciplinary and trained teams

6. POV is:

a) Pin Of View which is 1st part of Empathizing

c) Multidisciplinary and untrained teams

b) Point Of View which is last part of Define stage

c) Point Of View which is last part of Testing

d) Pin Of View which is last part of Prototype.

-	D : 1:1 / 11		1 C	
7.	During which stage would you consult exp		t the areas of concern	
	and to gain an understanding of other people		4) E	
	a) Prototype b) Define	c) Ideate	d) Empathize	
8.	Design thinking is:	0		
	a) Thinking about design		4	
	b) Designing ways in which people think			
	c) Asking users to solve problems			
	d) Defining, framing and solving problems	from user's perspectives		
9.	To Empathize, one has to			
	a) Observe b) Engage	c) Listen	d) All of these	
10.	Collecting is an important portion	of testing a prototyna	in the Test Stage of	
10.	Collecting is an important portion design thinking.	of testing a prototype	in the rest stage of	
	a) Pictures b) Money	c) Feedback	d) E-Mails	
	a) I lettiles b) Wolley	c) recuback	d) L-Mails	
11.	The Tool which uses image and allow us to	think nonverbally is		
	a) Value chain analysis	b) Journey mapping		
	c) Visualization	d) Assumption testing		
12.	Which tool is used as an ethnographic	research method that	t focuses on tracing	
	customer's journey?			
	a) Journey mapping b) Rapid prototyping	c) Visualization	d) Mind mapping.	
13.	Which tool is used in generating hypothesis	about notential new bus	siness opportunities:	
13.	a) Rapid concept development	b) Mind Mapping	siness opportunities.	
	c) Both a and b	d) None of these		
	c) Both a and b	d) None of these		
14.	In value chain analysis client activity includ	es:		
	a) Order taking	b) Scheduling		
	c) Software development	d) All of these		
1.5	W1:1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	
15.	Which tool is designed to test the value gene	erating assumptions of a	potential new growth	
	initiative?	a) I samina I aynahaa	d) None of these	
	a) Visualization b) Mind Mapping	c) Learning Launches	a) None of these.	
16.	Select odd one out:			
10.	a) Brain storming b) Mind Mapping	c) Empathy	d) Rapid concept	
7) I J	/ I I	
17.	Which of the following statement is correct			
	a) Design thinking is Convergence-Divergen	nce process		
	b) Design thinking is Lean start-up process			
	c) Design thinking is Linear process for proc	duct development		
	d) None of the above.			
18.	In Design thinking, where does the informa	tion used to put togethe	r o problem statement	
10.	came from:	non used to put togethe	i a problem statement	
	a) The Define stage b) Empathize stage	c) Testing state	d) Prototype stage	
	a, The Define stage of Empatitize stage	i, rosmig suic	a, 11000, pe suige	
19.	What is the way to narrow down the though	ts to reach at the final so	olution:	
	a) Convergent thinking	b) Divergent thinking		
	c) None of these	d) Roth a and h		

Version A - Page 2 of 4

20.		type phase is at component of your ic at component of your ic		of these
21.	Being an experimenta a) Define	al phase, continuous ite b) Empathize	erations can take place i c) Prototype	n which phase: d) None of these
22.	Which of the following a) Co-creation	ng is not tools of Desig b) Prototyping		d) On-Line Marketing
23.		ps which phase of activ b) During a service	vity of service for a cust c) After a service	omer? d) All of these.
24.	Value chain analysis new offering	_	nization interacts with	value chain partners to
	a) Produce	b) market	c) Distribute	d) All of these.
25.	A prototype is simple a) Test Ideas		f a proposed solution use c) Both a and b	sed to : d) None of these
26.	b) statement indicating	g the profitability of cong the Delivery time of grounded in support back		om secondary research
27.	What is you first mod a) Draft	lel/design of a product b) Rough draft	called: c) Prototype	d) Practice design
28.	To Ideate is: a) To change rapidly c) Creating and sharid d) Selling a product/s		b) creating 3D model of Sketches to describe yo	
29.	A case study is: a) Research strategy c) Descriptive and ex	ploratory analysis	b) Emperical enquiry d) All of these	
30.	At what step, POV (Fa) Empathy	Point Of View) is comp b) Prototype	oleted : c) Define	d) Ideate
31.	Design thinking princal feasibility	ciples do not include b) viability	c) desirability	d) credibility
32.	The final step in the I a) Test	Design thinking proces b) Define	s is c) Ideate	d) Empathize
33.	The three I's of Designa) Interest	gn thinking do not inclub) Implementation	ude c) Inspiration	d) Ideation
34.		s creating the product	g Design thinking appr for and conducts resear	-
	a) Define	b) Ideate	c) Empathize - Page 3 of 4	d) Prototype

35.	Collaborative teamwo a) Making profit c) Better failure mana		ign thinking for b) Closing down the c	perations d) None of these
	c) Better familie mane	igement		d) None of these
36.	The ultimate goal of a) Better service	design thinking is to l b) Better products		d) None of these
37.	Design thinking is typa) Non-linear process	_	c) Both a and b	d) None of these
38.	Design thinking follo a) Waterfall model	ws b) Agile Methodolo	gy c) Both a and b	d) None of these
39.	•		method of managing dev	velopment and design. d) All of these
40.	BPM stands for a) Building Project M c) Business Process M		b) Basic Product Man d) Business Product M	_
41.	Agile methodology ir a) sprints	nvolved b) no iteration	c) profit	d) none of these
42.	Which model provide a) Waterfall model	es better collaboration b) Agile model	and communication? c) Both a and b	d) None of these
43.	Major difference betwa) Agile model include c) BPM model include	les iteration	d Water fall model is b) Waterfall model ind d) None of these	cludes iteration
44.	"Invest in user resear a) Empathize	ch" – here word "use b) Design	r research" belongs to c) Ideate	d) Testing
45.	Parameters which are a) Transparency	absolutely necessary b) Inspection	in Agile model: c) Adaptation	d) All of these
46.	approach is a) Scenario based pro c) Both a and b		omplex software systems b) BPM d) None of these	
47.	is type of o together to reach a ce a) Cloud Computing	rtain GOAL:	participants regardless o	
48.	Digital space is also a Cloud computing	called as	c) Distributed Design	,
49.	Example for Distribu a) Mobile Manufactu		nufacturing c) Both a and	b d) None of these
50.	Design thinking helps a) Innovation	s in the following: b) Statistics	c) Data analysis	d) None of these

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First/Second Semester B.E./B.Tech./B.Arch./B.Planning Degree Examination, July/August 2022

Innovation and Design Thinking

(COMMON TO ALL BRANCHES)

Time: 1 hr.]		[Max. Marks: 50
_		_

- INSTRUCTIONS TO THE CANDIDATES Answer all the fifty questions, each question carries one mark. 1. 2. Use only **Black ball point pen** for writing / darkening the circles. 3. For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet. 4. Darkening two circles for the same question makes the answer invalid. Damaging/overwriting, using whiteners on the OMR sheets are strictly 5. prohibited. Agile methodology involved 1. a) sprints b) no iteration d) none of these c) profit Which model provides better collaboration and communication? a) Waterfall model b) Agile model c) Both a and b d) None of these
- 2. 3. Major difference between Agile model and Water fall model is a) Agile model includes iteration b) Waterfall model includes iteration c) BPM model include iteration d) None of these "Invest in user research" – here word "user research" belongs to 4. a) Empathize b) Design c) Ideate d) Testing 5. Parameters which are absolutely necessary in Agile model: a) Transparency b) Inspection c) Adaptation d) All of these approach is used for designing complex software systems. 6. a) Scenario based prototyping b) BPM d) None of these c) Both a and b is type of collaboration where participants regardless of their location, work 7. together to reach a certain GOAL: a) Cloud Computing b) Off-Line class c) Distributed Collaboration d) None of these

8. Digital space is also called as

a) Cloud computing b) Design analysis c) Distributed Design d) None of these

9.	Example for Distributed collaboration a) Mobile Manufacturing b) Machine manu	facturing c) Both a and	b d) None of these
10.	Design thinking helps in the following : a) Innovation b) Statistics	c) Data analysis	d) None of these
11.	Design thinking principles do not include a) feasibility b) viability	c) desirability	d) credibility
12.	The final step in the Design thinking process a) Test b) Define	s is c) Ideate	d) Empathize
13.	The three I's of Design thinking do not inclua) Interest b) Implementation	ide c) Inspiration	d) Ideation
14.	Ram is creating a new food product using addressing who he is creating the product this target market. This step is: a) Define b) Ideate		
15.	Collaborative teamwork is essential in desig a) Making profit c) Better failure management	n thinking for b) Closing down the op d) None of these	perations
16.	The ultimate goal of design thinking is to he a) Better service b) Better products	lp designing: c) Both a and b	d) None of these
17.	Design thinking is typically a a) Non-linear process b) Linear process	c) Both a and b	d) None of these
18.	Design thinking follows a) Waterfall model b) Agile Methodology	y c) Both a and b	d) None of these
19.	is an iterative and incremental many waterfall model b) Agile Methodology		elopment and design. d) All of these
20.	BPM stands for a) Building Project Management c) Business Process Management	b) Basic Product Mana d) Business Product M	
21.	The Tool which uses image and allow us to a) Value chain analysis c) Visualization	think nonverbally is b) Journey mapping d) Assumption testing	
22.	Which tool is used as an ethnographic customer's journey? a) Journey mapping b) Rapid prototyping		t focuses on tracing d) Mind mapping.
23.	Which tool is used in generating hypothesis a) Rapid concept development c) Both a and b	about potential new bus b) Mind Mapping d) None of these	siness opportunities:
24.	In value chain analysis client activity includ a) Order taking c) Software development Version B	es: b) Scheduling d) All of these - Page 2 of 4	

25.	initiative?	ed to test the value gen b) Mind Mapping	erating assumptions of a c) Learning Launches							
	a) Visualization	b) Mind Mapping	c) Learning Launches	a) None of these.						
26.	Select odd one out: a) Brain storming	b) Mind Mapping	c) Empathy	d) Rapid concept						
27.	Which of the following statement is correct: a) Design thinking is Convergence-Divergence process b) Design thinking is Lean start-up process c) Design thinking is Linear process for product development d) None of the above.									
28.	came from:	where does the information b) Empathize stage	c) Testing state	er a problem statement d) Prototype stage						
29.	What is the way to not a) Convergent thinking c) None of these	_	nts to reach at the final s b) Divergent thinking d) Both a and b	olution:						
30.		type phase is at component of your i at component of your i		of these						
31.	a) Define – Empathizb) Test and Implementc) Empathize – Defin	nt – Define – Empathiz e – Ideate – Prototype	ress in sequence? — Test and Implement ze — Ideate — Prototype — Test and Implement Implement — Prototype							
32.	Which of the following a) IKEA	ng Firm is associated r b) IDEO	nost with Design Think c) IDEA	ing? d) ASCI						
33.	In which step of De needs of customer/en a) Empathize		ch, actual requirements	together with un-met d) Prototype						
34.	Which of the following a) Monodisciplinary ac) Multidisciplinary a	and untrained teams	duce more innovative d b) Monodisciplinary a d) Multidisciplinary a	nd trained teams						
35.	MVP stands for : a) Minimum Value P c) Minimum Viable I		b) Moderate Value Pro d) Maximum Viable F							
36.	b) Point Of View whi	n is 1 st part of Empathi ich is last part of Defir ch is last part of Testin n is last part of Prototy	ne stage ng							

Version B - Page 3 of 4

37.		standing of other peopl	perts to learn more aboute's experiences?	
	a) Prototype	b) Define	c) Ideate	d) Empathize
38.	Design thinking is: a) Thinking about de b) Designing ways in c) Asking users to so d) Defining, framing	which people think lve problems	from user's perspective	
39.	To Empathize, one h a) Observe	as to b) Engage	c) Listen	d) All of these
40.	Collecting is design thinking. a) Pictures	s an important portion b) Money	of testing a prototype c) Feedback	e in the Test Stage of d) E-Mails
41.	Being an experiment a) Define	al phase, continuous ito b) Empathize	erations can take place i c) Prototype	n which phase: d) None of these
42.	Which of the following a) Co-creation	ng is not tools of Desig b) Prototyping	gn thinking? c) Mind Mapping	d) On-Line Marketing
43.	Journey mapping ma a) Before a service	ps which phase of active b) During a service	vity of service for a cust c) After a service	tomer? d) All of these.
44.	Value chain analysis new offerin		nnization interacts with	value chain partners to
	a) Produce	b) market	c) Distribute	d) All of these.
45.	A prototype is simple a) Test Ideas	e experimental model o b) Validate Ideas	of a proposed solution u c) Both a and b	sed to : d) None of these
46.	b) statement indication		± /*	om secondary research
47.	What is you first mod a) Draft	del/design of a product b) Rough draft	called: c) Prototype	d) Practice design
48.	To Ideate is: a) To change rapidly c) Creating and shari d) Selling a product/s	ng ideas using Images/	b) creating 3D model (Sketches to describe yo	
49.	A case study is: a) Research strategy c) Descriptive and ex	ploratory analysis	b) Emperical enquiry d) All of these	
50.	At what step, POV (I a) Empathy	Point Of View) is comp b) Prototype	oleted : c) Define	d) Ideate

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First/Second Semester B.E./B.Tech./B.Arch./B.Planning Degree Examination, July/August 2022

		Examination, Jul	ly/August 2022	
	Inn	ovation and D	esign Thinkir	ng 🛆
	(C	COMMON TO AI	LL BRANCHES)	S.
Time:	1 hr.]		_	Max. Marks: 50
	T	NSTRUCTIONS T	O THE CANDIDA	· TFS
	1.	NSTRUCTIONS T	O THE CANDIDA	ILS
1.	Answer all the fifty	questions, each ques	tion carries one mark	
2.	Use only Black bal	ll point pen for writir	ng / darkening the circ	eles.
3.	For each question	, after selecting you	r answer, darken th	e appropriate circle
	corresponding to t	the same question nu	imber on the OMR s	sheet.
4.	Darkening two circ	les for the same quest	tion makes the answe	r invalid.
5.	Damaging/overwr	iting, using whiter	ners on the OMR	sheets are strictly
	prohibited.		0.2	
1.		ntal phase, continuous it		
	a) Define	b) Empathize	c) Prototype	d) None of these
2.	Which of the follow a) Co-creation	ving is not tools of Desi b) Prototyping		d) On-Line Marketing
2	G,	, , ,		,
3.	a) Before a service	aps which phase of acti b) During a service	c) After a service	d) All of these.
4.	Value chain analysi	s examines how an org	anization interacts with	value chain partners to
	new offeri	ngs.		_
	a) Produce	b) market	c) Distribute	d) All of these.
5.	A prototype is simp a) Test Ideas	le experimental model b) Validate Ideas	of a proposed solution c) Both a and b	used to : d) None of these
6.	A Hypothesis is			
		ing the profitability of o	1 2	
		ing the Delivery time o		from secondary research
	d) None of the above		<i>36</i> 6	y = = = =
7.	•	odel/design of a produc		
	a) Draft	b) Rough draft	c) Prototype	d) Practice design

8. To Ideate is:

a) To change rapidly

b) creating 3D model of your design

c) Creating and sharing ideas using Images/Sketches to describe your idea

d) Selling a product/service at huge profit

9.	A case study is:			
9.	a) Research strategy		b) Emperical enquiry	
	c) Descriptive and ex		d) All of these	
	c) Descriptive and ex	Apioratory analysis	d) An of these	
10.	At what step, POV (Point Of View) is com	pleted:	
	a) Empathy	b) Prototype	c) Define	d) Ideate
	, 1		Ý	
11.	Agile methodology i			A.
	a) sprints	b) no iteration	c) profit	d) none of these
12	Which model marrid	laa hattan aallaharatian	and communication?	
12.	_	les better collaboration		d) None of these
	a) Waterfall model	b) Agile model	c) Both a and b	d) None of these
13.	Major difference bet	ween Agile model and	Water fall model is	
	a) Agile model inclu	10 THE	b) Waterfall model in	cludes iteration
	c) BPM model inclu		d) None of these	
			, ,	
14.		rch" – here word "user		
	a) Empathize	b) Design	c) Ideate	d) Testing
1 =	D 1 1	1 1 4 1		
15.		e absolutely necessary	_	d) All of these
	a) Transparency	b) Inspection	c) Adaptation	d) All of these
16.	approach is	s used for designing co	mplex software systems	
10.	a) Scenario based pr		b) BPM	
	c) Both a and b	71-78	d) None of these	
	-) =			
17.	is type of	collaboration where j	participants regardless of	of their location, work
	together to reach a c		Y' \(\(\)	
	a) Cloud Computing	b) Off-Line class	c) Distributed Collabora	tion d) None of these
10	Digital grass is also	aallad aa	7	
18.	Digital space is also	b) Design analysis	a) Distributed Design	d) Nana afthaga
	a) Cloud computing	b) Design analysis	c) Distributed Design	d) None of these
19.	Example for Distribu	uted collaboration		
			ufacturing c) Both a and	b d) None of these
		7>		,
20.	Design thinking help			
1	a) Innovation	b) Statistics	c) Data analysis	d) None of these
21	Dagion thinking main	ainles de net include		
21.		ciples do not include	a) daginahilitu	d) credibility
	a) feasibility	b) viability	c) desirability	a) creatonity
22.	The final step in the	Design thinking proce	ss is	
	a) Test	b) Define	c) Ideate	d) Empathize
	,		,	/ I
23.	The three I's of Desi	ign thinking do not inc	lude	
	a) Interest	b) Implementation	c) Inspiration	d) Ideation
2.4	D		D 1111	and II' Corre
24.		-	ng Design thinking appr	<u>-</u>
			t for and conducts rese	arch on understanding
	this target market. The a) Define	nis step is : b) Ideate	c) Empathize	d) Prototype
	at Dellike	DITUCAL	CT DHIDAUIIZ	G F F FOROLVOC

25.	Collaborative teamwork is essential in design thinking for a) Making profit b) Closing down the operations
	c) Better failure management d) None of these
26.	The ultimate goal of design thinking is to help designing: a) Better service b) Better products c) Both a and b d) None of these
27.	Design thinking is typically a a) Non-linear process b) Linear process c) Both a and b d) None of these
28.	Design thinking follows a) Waterfall model b) Agile Methodology c) Both a and b d) None of these
29.	is an iterative and incremental method of managing development and design. a) Waterfall model b) Agile Methodology c) Cyclic model d) All of these
30.	BPM stands for a) Building Project Management c) Business Process Management d) Business Product Management d) Business Product Management
31.	The Tool which uses image and allow us to think nonverbally is a) Value chain analysis b) Journey mapping c) Visualization d) Assumption testing
32.	Which tool is used as an ethnographic research method that focuses on tracing customer's journey? a) Journey mapping b) Rapid prototyping c) Visualization d) Mind mapping.
33.	Which tool is used in generating hypothesis about potential new business opportunities: a) Rapid concept development b) Mind Mapping c) Both a and b d) None of these
34.	In value chain analysis client activity includes: a) Order taking b) Scheduling c) Software development d) All of these
35.	Which tool is designed to test the value generating assumptions of a potential new growth initiative? a) Visualization b) Mind Mapping c) Learning Launches d) None of these.
36.	Select odd one out: a) Brain storming b) Mind Mapping c) Empathy d) Rapid concept
37.	Which of the following statement is correct: a) Design thinking is Convergence-Divergence process b) Design thinking is Lean start-up process c) Design thinking is Linear process for product development d) None of the above.
38.	In Design thinking, where does the information used to put together a problem statement came from: a) The Define stage b) Empathize stage c) Testing state d) Prototype stage

39.	What is the way to not a) Convergent thinking c) None of these	arrow down the thoughing	ts to reach at the f b) Divergent thir d) Both a and b	
40.	,	type phase is at component of your id at component of your id	dea work	None of these
41.	a) Define – Empathizb) Test and Implementc) Empathize – Defin	Design Thinking Proce — Ideate — Prototype nt — Define — Empathiz e — Ideate — Prototype Empathize — Test and I	Test and ImplerIdeate – ProtoTest and Impler	ntype ment
42.	Which of the following a) IKEA	ng Firm is associated n b) IDEO	nost with Design T	Γhinking? d) ASCI
43.	In which step of De needs of customer/en a) Empathize		ch, actual required	ments together with un-met d) Prototype
44.	Which of the following a) Monodisciplinary ac) Multidisciplinary a		b) Monodisciplin	tive design solutions: nary and trained teams nary and trained teams
45.	MVP stands for : a) Minimum Value P c) Minimum Viable I		b) Moderate Val d) Maximum Via	
46.	b) Point Of View who	n is 1 st part of Empathic ich is last part of Defin ich is last part of Testir h is last part of Prototy	e stage	
47.		would you consult exp tanding of other peopl b) Define		e about the areas of concern d) Empathize
48.	Design thinking is: a) Thinking about des b) Designing ways in c) Asking users to so d) Defining, framing	which people think	from user's perspe	ectives.
49.	To Empathize, one ha		c) Listen	d) All of these
50		b) Engage	,	,
50.	Collecting is design thinking. a) Pictures			totype in the Test Stage of
	a) Fictures	b) Money	c) Feedback	d) E-Mails

USN						Question Paper Version:	D	
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First/Second Semester B.E./B.Tech./B.Arch./B.Planning Degree

	Examination	on, July/August 2022						
	Innovation a	nd Design Thinl	king 🛆					
	(COMMON T	ГО ALL BRANCHE	CS)					
Time:	1 hr.]		[Max. Marks: 50					
	INSTRUCTION	ONS TO THE CANDI	DATES					
	morkecin	5115 TO THE CARDI	DATES					
1.	Answer all the fifty questions, each	ch question carries one m	ark.					
2.	Use only Black ball point pen fo	or writing / darkening the	circles.					
3.	For each question, after selecting your answer, darken the appropriate circle							
	corresponding to the same ques	tion number on the OM	R sheet.					
4.	Darkening two circles for the sam	ne question makes the ans	wer invalid.					
5.	Damaging/overwriting, using	whiteners on the ON	IR sheets are strictly					
	prohibited.	0.9	<u> </u>					
1.	Design thinking principles do not in a) feasibility b) viability	nclude c) desirability	d) credibility					
2.	The final step in the Design thinkin a) Test b) Define	ng process is c) Ideate	d) Empathize					
3.	The three I's of Design thinking do a) Interest b) Implemen		d) Ideation					
4.	Ram is creating a new food prod addressing who he is creating the this target market. This step is: a) Define b) Ideate							
5.	Collaborative teamwork is essentia a) Making profit c) Better failure management	l in design thinking for b) Closing down	the operations d) None of these					
6.	The ultimate goal of design thinkin a) Better service b) Better pro		d) None of these					
7.	Design thinking is typically a a) Non-linear process b) Linear process	rocess c) Both a and b	d) None of these					

Design thinking follows a) Waterfall model b)

b) Agile Methodology c) Both a and b

d) None of these

9.	a) Waterfall model	ative and incremental n b) Agile Methodolog	nethod of managing dev y c) Cyclic model	elopment and design. d) All of these
10.	BPM stands for a) Building Project M c) Business Process M	_	b) Basic Product Mana d) Business Product M	•
11.	a) Define – Empathizb) Test and Implemenc) Empathize – Defin	Design Thinking Proc te – Ideate – Prototype nt – Define – Empathiz te – Ideate – Prototype Empathize – Test and I	Test and ImplementIdeate – PrototypeTest and Implement	
12.	Which of the following a) IKEA	ng Firm is associated n b) IDEO	nost with Design Thinki c) IDEA	ng? d) ASCI
13.	In which step of De needs of customer/en a) Empathize		ch, actual requirements c) Define	together with un-met d) Prototype
14.	Which of the following a) Monodisciplinary ac) Multidisciplinary a	and untrained teams	duce more innovative do b) Monodisciplinary a d) Multidisciplinary ar	nd trained teams
15.	MVP stands for : a) Minimum Value P c) Minimum Viable I		b) Moderate Value Pro d) Maximum Viable P	- 13
16.	b) Point Of View who	n is 1 st part of Empathi ich is last part of Defin ich is last part of Testir h is last part of Prototy	e stage	
17.		would you consult exp standing of other people b) Define	erts to learn more aboute's experiences? c) Ideate	t the areas of concern d) Empathize
18.	Design thinking is: a) Thinking about des b) Designing ways in c) Asking users to so d) Defining, framing	which people think lve problems	from user's perspectives	5.
19.	To Empathize, one ha a) Observe	as to b) Engage	c) Listen	d) All of these
20.	Collectingis design thinking. a) Pictures	s an important portion b) Money	of testing a prototype c) Feedback	in the Test Stage of d) E-Mails
21.	Agile methodology in a) sprints	nvolved b) no iteration	c) profit	d) none of these

Version D - Page 2 of 4

22.	Which model provide a) Waterfall model	es better collaboration b) Agile model	and communication? c) Both a and b	d) None of these
23.	Major difference betwa) Agile model include c) BPM model include	les iteration	Water fall model is b) Waterfall model ind d) None of these	cludes iteration
24.	"Invest in user researe a) Empathize	ch" – here word "user b) Design	research" belongs to c) Ideate	d) Testing
25.	Parameters which are a) Transparency	absolutely necessary b) Inspection	in Agile model: c) Adaptation	d) All of these
26.	approach is a) Scenario based pro c) Both a and b		mplex software systems. b) BPM d) None of these	
27.	together to reach a ce	rtain GOAL:	participants regardless of	
28.	Digital space is also ca) Cloud computing		c) Distributed Design	d) None of these
29.	Example for Distribua) Mobile Manufactua		ufacturing c) Both a and	b d) None of these
30.	Design thinking helps a) Innovation	s in the following: b) Statistics	c) Data analysis	d) None of these
31.	Being an experimenta a) Define	al phase, continuous it b) Empathize	erations can take place i c) Prototype	n which phase: d) None of these
32.	Which of the following a) Co-creation	ng is not tools of Design b) Prototyping	gn thinking? c) Mind Mapping	d) On-Line Marketing
33.	Journey mapping map a) Before a service	os which phase of acti b) During a service	vity of service for a cust c) After a service	omer? d) All of these.
34.	new offering	gs.	anization interacts with	•
35.	a) ProduceA prototype is simplea) Test Ideas	b) market experimental model of b) Validate Ideas	c) Distribute of a proposed solution us c) Both a and b	d) All of these. sed to: d) None of these
36.	A Hypothesis isa) statement indicatin b) statement indicatin	g the profitability of c	ompany	,
37.	What is you first mod a) Draft	lel/design of a product b) Rough draft Version D	t called: c) Prototype 0 - Page 3 of 4	d) Practice design

38.	To Ideate is:		
30.	a) To change rapidly	b) creating 3D model of	of your design
	c) Creating and sharing ideas using Images/S		•
	d) Selling a product/service at huge profit	sketches to describe you	ii idea
	a) beining a product service at hage pront	25	
39.	A case study is:		
	•	b) Emperical enquiry	_
	c) Descriptive and exploratory analysis	d) All of these	
) ′	
40.	At what step, POV (Point Of View) is comp	leted:	Y
	a) Empathy b) Prototype	c) Define	d) Ideate
41.	The Tool which uses image and allow us to	7	
	a) Value chain analysis	b) Journey mapping	
	c) Visualization	d) Assumption testing	
42.	Which tool is used as an ethnographic	ragarah mathad that	t footiges on tracing
42.	customer's journey?	research method that	l locuses on tracing
	a) Journey mapping b) Rapid prototyping	c) Visualization	d) Mind mapping.
	a) sourcey mapping b) Rapid prototyping	C) Visualization	d) Willia mapping.
43.	Which tool is used in generating hypothesis	about potential new bus	siness opportunities:
	a) Rapid concept development	b) Mind Mapping	11
	c) Both a and b	d) None of these	
44.	In value chain analysis client activity include		4
	a) Order taking	b) Scheduling	
	c) Software development	d) All of these	
15	Which tool is designed to test the value gene	rating aggumentians of a	notantial navy anavyth
45.	initiative?	training assumptions of a	potential new growin
		c) Learning Launches	d) None of these
	a) visualization b) wind wapping	c) Learning Lautienes	d) None of these.
46.	Select odd one out:	, ,	
	a) Brain storming b) Mind Mapping	c) Empathy	d) Rapid concept
			, 1
47.	Which of the following statement is correct	A	
	a) Design thinking is Convergence-Divergen	nce process	
	b) Design thinking is Lean start-up process		
	c) Design thinking is Linear process for proc	duct development	
	d) None of the above.		
48.	In Design thinking, where does the information	tion used to nut togethe	r a problem statement
70.	came from:	tion asea to put togethe	i a problem statement
	a) The Define stage b) Empathize stage	c) Testing state	d) Prototype stage
	a) The Benne stage s) Emparate stage	c) Testing state	a) Prototype stage
49.	What is the way to narrow down the thought	ts to reach at the final so	olution:
	a) Convergent thinking	b) Divergent thinking	
	c) None of these	d) Both a and b	
50.	The goal of the prototype phase is		
JU.	a) To understand what component of your id	lea didn't work	
	b) To understand what component of your ic		
	c) Both a and b	d) None o	of these
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USN											Question Paper Version:	A
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First/Second Semester B.E./B.Tech./B.Arch./B.Planning Degree Examination, July/August 2022

Scientific Foundations of Health

(COMMON TO ALL BRANCHES)

Time: 1 hrs.] [Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES

- 1. Answer all the fifty questions, each question carries one mark.
- 2. Use only Black ball point pen for writing / darkening the circles.
- 3. For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.
- 4. Darkening two circles for the same question makes the answer invalid.
- 5. Damaging/overwriting, using whiteners on the OMR sheets are strictly prohibited.
- 1. According to WHO, heath is
 - a) A state of body and mind in a balanced condition.
 - b) The reflection of a smiling face
 - c) The symbol of economic prosperity
 - d) A state of complete physical, mental and social well-being and not merely the absence of disease or infirmity
- 2. Psychosis is characterized by
 - a) Loss of touch with reality
 - b) Prolonged emotional reaction to a given stress
 - c) Anxiety, fear, sadness, vague aches and pains
 - d) All the above
- 3. Which one of the following factors affects the development of child?
 - a) Endocrinal glands

b) Nutritious diet

c) Diseases and injuries

- d) All of these
- **4.** Which year did the World Health Organization first express the right to health as a Fundamental Human Right?
 - a) 1946

b) 1952

c) 1987

d) 2000

- 5. Which of these things is health psychology concerned with?
 - a) What causes illness?

b) Who is responsible for illness?

c) How should illness be treated?

d) All of these

6.	Which of these is not an example of a health a) Smoking c) Eating healthy food	n behaviour? b) Taking regular exercise d) Going to the gym
7.	Which statement is wrong in the context of a) Personality is unique and specific b) Personality is a joint product of heredity ac) Personality spreads over the subconscioud) Personality is limited only to the appearance	and environment s and unconscious behaviour of the person
8.	Who proposed the biopsychosocial model? a) Freud c) Engel	b) Sontag d) None of these
9.	Which of these is not a benefit of mindfulne a) Reduced anxiety and stress c) Decreased emotional regulation	b) Decreasing depression d) Better memory
10.	Mental health hazards includes a) Anxiety b) Depression c) Organic mental disorders due to substanc d) All of the above	e use
11.	Which of the following components are maj a) Carbohydrates c) Vitamins and minerals	jor nutrients in our food? b) Lipids and proteins d) All of these
12.	The benefits in eating a balanced diet a) good health c) improved health and reduced illness	b) good mood and energy d) All of these
13.	Nutritional means a) Tastes really good b) Tastes really bad c) Containing necessary substances for the b d) Is mostly green	oody to grow and stay healthy
14.	In a healthy diet as per WHO the amount of a) less than 5g c) less than 50 mg	Salt to be consumed by a person per day is b) less than 5 mg d) less than 0.5 g
15.	BMI stands for a) Body Material Index c) Body Mass Indicator	b) Body Mass Index d) None of these
16.	What is anorexia nervosa? a) Nervous system blockage c) Eating disorder	b) Sleeping disorder d) Physical disability
	Version	A - 2 of 6

17.	Which of the following food items provide	es dietary fibre?	
	a) Pulses	b) Wholegrain	
	c) Fruits and vegetables	d) All of these	
	, 8		
18.	Which are intimately related?		
10.	a) Diseases and health	b) Body and health	
	c) Body and mind	d) Body and spiritual	values
19.	Exercise is often described as training and		
	a) Exertion of the heart	b) Exertion of the lun	igs
	c) Exertion of the muscles	d) All of these	
20.	Exercising regularly should be a/an	not a short-term ac	tivity, so think of your
	progress as part of a long term plan to line		• •
	a) Lifestyle	b) Choice	
	c) Obligation	d) None of these	
	, ,		
21.	Communication is a		
41.	a) Art of transmitting information, ideas ar	nd attitudes from one ne	rcon
	b) Tool for controlling and motivating peo		15011
	c) We can't influence others without comm	pic	
	d) (a) and (b)	ilumcation	A.
	d) (a) and (b)		
22			1
22.	Communication strengthens	and	relationships in an
	organization.	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	a) Employee and Employer	b) Employee and Fatl	
	c) Father and Mother	d) Friends and Collea	agues
		, Y	
23.	Our dress code is an example of	communication	
	a) Verbal	b) Non-verbal	
	c) Written	d) Spoken	
		, 1	
24.	From the following identify the skills pron	noted by communication	1
	(i) Reading and listening		•
4	(ii) Listening and helping		
	(iii) Helping and speaking		
	(iv) Speaking and writing		
	a) (i) and (ii) only	b) (ii) and (iii) only	
	c) (i) and (iv) only	d) (iii) and (iv) only	
25.	Which of the following is not a barrier of e	effective listening?	
	a) Engaging inside conversations	Č	
	b) Mentally preparing what you will say no	ext	
	c) Being present in the moment		
	d) Making judgment about the speaker		
	a) making juagment accut the speaker		

26.	Body language and facial expressions are re	lated to
20.	a) Object communication	b) Written communication
	c) Oral communication	d) Non-verbal communication
27.	Negative characteristics of friendships inclu	
	a) Unsupportive	b) Oppressive
	c) Criticize in a joking manner	d) Solve problems together
28.	Basic instincts of human life	
20.	a) Self preservation	b) Sexual
	c) Social	d) All of these
		, 121
20		
29.	What are the steps to increase the vocal clar	
	a) Keep your language simplec) Feedback	b) Slow down during conversation d) Both (a) and (b)
	C) recuback	d) Bour (a) and (b)
30.	What is the goal of social engineering?	
	a) Sabotage a person's social media	b) To gain vital personal information
	c) To catfish someone	d) To build trust
31.	Alcohol abuse and smoke share a window o	f vulnerability especially during
J1.	a) Adolescence	b) Adulthood
	c) Middle age	d) Old age
		0
32.	Adolescents involved in risky behaviours of	
	a) high self-esteem	b) a large peer group
	c) poor self-control	d) a tolerant attitude
22	Chamical denoted and in companily imports	start hatry on the east of
33.	Chemical dependence in generally known to a) 42 and 51	b) 22 and 31
	c) 12 and 21	d) 32 and 41
	0) 12 (1)(2)	a) 52 ang 11
34.	Alcoholics anonymous maintains that alcoholics	olism is
	a) a disease that can be cured	
	b) a disease that can be managed but never of	
	c) a problem only if a person starts experien	~ · ~
	d) a serious problem only for binge drinkers	
35.	Which of the following is true of the synerg	istic effects of smoking?
	a) It helps to reduce stress and maintain a lo	S
	b) It increases a person's likelihood of engage	
	c) It enhances the detrimental effects of other	er risk factors
	d) It reduces the chances of early mortality	
36.	The interaction between weight and smokin	a can increase ane's
30.	a) Mortality	b) Self control
	c) Deviant behaviour	d) Fertility
		•
	Version	A - 4 of 6
	· · · · · · · · · · · · · · · · · · ·	
	Version	
	7	

		21SFH19/29
37.	Which of the following is not a characterist a) Habitual behaviour c) Negative consequence	tic of addition? b) Loss of control d) Denial
38.	Addiction involves an excessive a) Tolerance for alcohol or drugs b) Amount of debt or financial problems c) Preoccupation with the addictive behavior d) Risk of losing one's job or failing out of	
39.	Temporary physical and psychological sy substance is discontinued is a) Relapse c) Withdrawal	b) Compulsion d) Addiction
40.	Transdermal drug administration means that a) Placed under the tongue c) Absorbed through the skin	at a drug is b) Injected into a vein d) Inhaled
41.	How are infectious diseases, such as colds a) Breathing viruses in c) Drinking infected water	and influenza, most commonly spread? b) Hand-to-face contact d) Eating contaminated food
42.	Which is the most important hygiene habit a) Use a tissue to cover a sneeze c) Wash hands frequently	to teach young children? b) Don't share a glass or eating utensil d) Take a bath daily
43.	Chronic stress has been linked to which of a) Headaches c) Depression	these health problems? b) Constipation d) All of these
44.	Which of the following increases your risk a) Not getting enough exercise c) Being overweight	for type 2 diabetes? b) Eating too much sugar d) (a) and (c)
45.	According to CDC, when should infants state a) Birth c) 6 weeks old	art vaccines against serious diseases? b) 2 months old d) 6 months old
46.	Modes of horizontal transmission of disease a) Contact c) Common vehicle	e, except b) Vector d) Genetic
47.	An infected person is less likely to en proportion of the members of the group are a) Active immunity c) Herd immunity	counter a susceptible person when a large immune. b) Passive immunity d) Specific immunity

Version A - 5 of 6

- 48. Occurrence in the community of a number of cases of disease that is usually large or unexpected.
 a) Endemic
 b) Epidemic
 c) Pandemic
 d) Infection
- 49. Leading cause of diarrheal disease
 a) Enterotoxigenic Escherichia coli
 b) Salmonella (non-typhoid)
 c) Rotavirus
 d) Campylobacter jejuni
- 50. Mammography should be done annually in women of what age?
 a) 50 years old and above
 b) 60 years old and above
 c) 45 years old and above
 d) 30 years old and above

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USN								Questio	n Paper	Versi	on : B
	First/Se	cond	Semes	ter B	.E./B	_ .Tech	./B.A	rch./B.Pl	anning	Deg	ree
			Exa	amina	ation,	July	'Augu	st 2022			
		So	cient	ific	Foui	ıdat	ions	of Hea	lth		
			(CON	1MO	N TO	ALI	BRA	NCHEŞ) *		
Time:	1 hrs.]				a v				[Ma	ıx. M	arks: 50
			INICH	DUG	TION		WITE	CANDID	A TERC		
			11/21	RUC	HON	5 10	IHŁ	CANDID	AIES		
1.	Answer a	ıll the f	ifty que	estions.	each	auestio	n carri	es one mar	ζ.		
2.						_	Y	ning the cir			
				_				_		• ,	
3.		<u> </u>						, darken tl		priat	e circle
	correspo	nding	to the s	ame q	uestio	n num	ber on	the OMR	sheet.		
4.	Darkenin	g two c	circles f	or the	same o	questio	n make	es the answ	er invalid	.•	
5.	Damagir	ıg/over	writing	g, usi	ng w	hitenei	s on	the OMF	R sheets	are	strictly
	prohibite	d.					0	9		•	
1.	How are is	nfectiou	ıs diseas	ses, suc	h as co	lds and	influen	za, most coi	nmonly s _l	oread?	?
	a) Breathi					\ //		to-face cont			
	c) Drinkin	ig infect	ted wate	r		d _e) Eatınş	g contamina	ted food		
2.	Which is t	the most	t import	ant hvo	riene h	hit to t	each vo	ung childrei	1 2		
2.	a) Use a ti		-				-	share a glas		utens	sil
	c) Wash h			1				bath daily		,	
3.	Chronic st	tress has	s been li	nked to	which	of the	e healtl	h problems?			
3.	a) Headac		occii ii	iikea a	WIIICI) Consti				
	c) Depress		0)				All of	•			
	· · · · · · · · · · · · · · · · · · ·	.1 0.11	0		_			11.1			
4.	Which of		_		s your i						
	a) Not get c) Being c		_	ercise	6) caung) (a) an	g too much s d (c)	ugar		
	., 6	,	J	~	/	4,	, (2) 411	(-)			
5.	_	g to CD0	C, when	should	l infant			s against seri	ous diseas	ses?	
	a) Birth	1.1	*	72			2 mon				
	c) 6 weeks	s old		*		d)) 6 mon	ths old			

Version B - 1 of 6

b) Vector

d) Genetic

Modes of horizontal transmission of disease, except

6.

a) Contact

c) Common vehicle

7.	An infected person is less likely to end proportion of the members of the group are a) Active immunity c) Herd immunity	counter a susceptible person when a large immune. b) Passive immunity d) Specific immunity
8.	Occurrence in the community of a numbe unexpected. a) Endemic c) Pandemic	r of cases of disease that is usually large or b) Epidemic d) Infection
9.	Leading cause of diarrheal disease	7
	a) Enterotoxigenic Escherichia coli	b) Salmonella (non-typhoid)
	c) Rotavirus	d) Campylobacter jejuni
10.	Mammography should be done annually in	women of what age?
	a) 50 years old and above	b) 60 years old and above
	c) 45 years old and above	d) 30 years old and above
11.	Alcohol abuse and smoke share a window o	fyulnarahility aspecially during
11.	a) Adolescence	b) Adulthood
	c) Middle age	d) Old age
12.	Adolescents involved in risky behaviours of	ten have
	a) high self-esteem	b) a large peer group
	c) poor self-control	d) a tolerant attitude
10		
13.	Chemical dependence in generally known to	
	a) 42 and 51 c) 12 and 21	b) 22 and 31 d) 32 and 41
	c) 12 and 21	u) 32 and 41
14.	Alcoholics anonymous maintains that alcoh	olism is
	a) a disease that can be cured	7
	b) a disease that can be managed but never of	cured
	c) a problem only if a person starts experien	
4	d) a serious problem only for binge drinkers	
15.	Which of the following is true of the synerg	istic effects of smoking?
13.	a) It helps to reduce stress and maintain a lo	
	b) It increases a person's likelihood of enga	
	c) It enhances the detrimental effects of other	
	d) It reduces the chances of early mortality	
16.	The interaction between weight and smokin	
	a) Mortality	b) Self control
	c) Deviant behaviour	d) Fertility

17.	Which of the following is not a characterist	
	a) Habitual behaviour	b) Loss of control
	c) Negative consequence	d) Denial
	, ,	
18.	Addiction involves an excessive	
10.	a) Tolerance for alcohol or drugs	\' .
	b) Amount of debt or financial problems	
	, ·	
	c) Preoccupation with the addictive behavior	
	d) Risk of losing one's job or failing out of	school
10		
19.		mptoms that occur when use of an addictive
	substance is discontinued is	Y
	a) Relapse	b) Compulsion
	c) Withdrawal	d) Addiction
20.	Transdermal drug administration means tha	t a drug is
20.	a) Placed under the tongue	b) Injected into a vein
	· ·	
	c) Absorbed through the skin	d) Inhaled
		Y
21.	Which of the following components are ma	jor nutrients in our food?
	a) Carbohydrates	b) Lipids and proteins
	c) Vitamins and minerals	d) All of these
	, Y	
22.	The benefits in eating a balanced diet	
	a) good health	b) good mood and energy
	c) improved health and reduced illness	d) All of these
	o) improved neural and reduced imposs	a), This of these
23.	Nutritional means	
	a) Tastes really good	
	b) Tastes really bad	
		hadreta anaro and atarehaalthre
	c) Containing necessary substances for the	body to grow and stay healthy
	d) Is mostly green	
24	In a backley diet as you WIIO the amount of	C144- 1
24.	In a healthy diet as per WHO the amount of	
	a) less than 5g	b) less than 5 mg
	c) less than 50 mg	d) less than 0.5 g
<		
25.	BMI stands for	
	a) Body Material Index	b) Body Mass Index
	c) Body Mass Indicator	d) None of these
26.	What is anorexia nervosa?	
	a) Nervous system blockage	b) Sleeping disorder
	c) Eating disorder	d) Physical disability
	A	
27.	Which of the following food items provides	s dietary fibre?
	a) Pulses	b) Wholegrain
	c) Fruits and vegetables	d) All of these
	o, i i and regoldores	a, 1 m or meso

28.	Which are intimately related?	
	a) Diseases and health	b) Body and health
	c) Body and mind	d) Body and spiritual values
	-,, -,	a) Source of Leaving Control
20	Everging is often described as training an	d should include
29.	Exercise is often described as training an	
	a) Exertion of the heart	b) Exertion of the lungs
	c) Exertion of the muscles	d) All of these
		>
30.	Exercising regularly should be a/an	not a short-term activity, so think of your
	progress as part of a long term plan to lin	
	a) Lifestyle	b) Choice
	c) Obligation	d) None of these
31.	According to WHO, heath is	
	a) A state of body and mind in a balance	d condition.
	b) The reflection of a smiling face	
	c) The symbol of economic prosperity	
		and social well-being and not merely the absence
	of disease or infirmity	
32.	Psychosis is characterized by	
	a) Loss of touch with reality	
	b) Prolonged emotional reaction to a give	en stress
	c) Anxiety, fear, sadness, vague aches an	nd pains
	d) All the above	
33.	Which one of the following factors affect	1
	a) Endocrinal glands	b) Nutritious diet
	c) Diseases and injuries	d) All of these
34.		anization first express the right to health as a
	Fundamental Human Right?	
	a) 1946	b) 1952
	c) 1987	d) 2000
25	WI 1 C4	1 - 31 9
35.	Which of these things is health psycholo	
	a) What causes illness?	b) Who is responsible for illness?
	c) How should illness be treated?	d) All of these
36.	Which of these is not an example of a he	alth behaviour?
30.	1	
	a) Smoking	b) Taking regular exercise
	c) Eating healthy food	d) Going to the gym
37.	Which statement is wrong in the context	of nersonality?
57.	a) Personality is unique and specific	or personality.
	b) Personality is a joint product of hered	ity and environment
	7	ious and unconscious behaviour of the person
	d) Personality is limited only to the appe	
	a, i ciscinality is unifice only to the abbe	mmies of a beloom

38.	Who proposed the biopsychosocial model? a) Freud c) Engel	b) Sontag d) None of these	
39.	Which of these is not a benefit of mindfulne a) Reduced anxiety and stress c) Decreased emotional regulation	b) Decreasing depression d) Better memory	
40.	Mental health hazards includes a) Anxiety b) Depression c) Organic mental disorders due to substance d) All of the above	ee use	
41.	Communication is a a) Art of transmitting information, ideas and b) Tool for controlling and motivating peop c) We can't influence others without comm d) (a) and (b)	ole	
42.	Communication strengthens organization. a) Employee and Employer c) Father and Mother	and relationships in b) Employee and Father d) Friends and Colleagues	an
43.	Our dress code is an example of	communication.	
	a) Verbal c) Written	b) Non-verbal d) Spoken	
44.	From the following identify the skills prome (i) Reading and listening (ii) Listening and helping (iii) Helping and speaking (iv) Speaking and writing a) (i) and (ii) only c) (i) and (iv) only	b) (ii) and (iii) only d) (iii) and (iv) only	
15	Which of the fellowing is not a homism of at	Ya ativya liatanin a?	
45.	Which of the following is not a barrier of et a) Engaging inside conversations b) Mentally preparing what you will say not c) Being present in the moment d) Making judgment about the speaker	<u> </u>	
46.	Body language and facial expressions are re-		
	a) Object communicationc) Oral communication	b) Written communicationd) Non-verbal communication	

- 47. Negative characteristics of friendships include all of the following except:
 - a) Unsupportive

- b) Oppressive
- c) Criticize in a joking manner
- d) Solve problems together
- 48. Basic instincts of human life
 - a) Self preservation
 - c) Social

- b) Sexual
- d) All of these
- **49.** What are the steps to increase the vocal clarity
 - a) Keep your language simple
 - c) Feedback
- b) Slow down during conversation
- d) Both (a) and (b)
- 50. What is the goal of social engineering?
 - a) Sabotage a person's social media
 - c) To catfish someone

- b) To gain vital personal information
- d) To build trust

* * * * *

USN											Question Paper Version:	C
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First/Second Semester B.E./B.Tech./B.Arch./B.Planning Degree Examination, July/August 2022

Scientific Foundations of Health

(COMMON TO ALL BRANCHES)

Time: 1 hrs.]			[Max. Marks: 50
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INSTRUCTIONS TO THE CANDIDATES

- Answer all the fifty questions, each question carries one mark. 1.
- 2. Use only **Black ball point pen** for writing / darkening the circles.
- 3. For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.
- 4. Darkening two circles for the same question makes the answer invalid.

5.	Damaging/overwriting, using white	ners on the OMR	sneets are	strictly
	prohibited.	0,		
1.	Communication is a	05.	Y	
	a) Art of transmitting information, ideas and	d attitudes from one pers	son	
	b) Tool for controlling and motivating peop	ole		
	c) We can't influence others without comm	unication		
	d) (a) and (b)			
2.	Communication strengthens	and	relationships	in an
	organization.		1	
	a) Employee and Employer	b) Employee and Fath	er	
	c) Father and Mother	d) Friends and Colleag	gues	
3. ົ	Our dress code is an example of	communication.		
	a) Verbal	b) Non-verbal		
	c) Written	d) Spoken		
		u) apanen		
4.	From the following identify the skills prom	oted by communication		
т.	(i) Reading and listening	oted by communication		
	(ii) Listening and helping			
	(iii) Helping and speaking			
	(iv) Speaking and writing			
		1. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.		
	a) (i) and (ii) only	b) (ii) and (iii) only		
	c) (i) and (iv) only	d) (iii) and (iv) only		

5.	Which of the following is not a barrier of ef	fective listening?
	a) Engaging inside conversations	· · · · · · · · · · · · · · · · · · ·
	b) Mentally preparing what you will say nex	xt
	c) Being present in the moment	
	d) Making judgment about the speaker	
	7 83 8 1	~
6.	Body language and facial expressions are re-	lated to
••	a) Object communication	b) Written communication
	c) Oral communication	d) Non-verbal communication
	c) Oral communication	d) Non-verbal communication
7	Nagative above stanistics of friendships in alv	de all afthe fallewine avecut.
7.	Negative characteristics of friendships inclu	
	a) Unsupportive	b) Oppressive
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8.	Basic instincts of human life	
	a) Self preservation	b) Sexual
	c) Social	d) All of these
	A / Y	
9.	What are the steps to increase the vocal clar	•
	a) Keep your language simple	b) Slow down during conversation
	c) Feedback	d) Both (a) and (b)
10.	What is the goal of social engineering?	
	a) Sabotage a person's social media	b) To gain vital personal information
	c) To catfish someone	d) To build trust
	,	
11.	How are infectious diseases, such as colds a	and influenza, most commonly spread?
	a) Breathing viruses in	b) Hand-to-face contact
	c) Drinking infected water	d) Eating contaminated food
12.	Which is the most important hygiene habit t	to teach young children?
12,	a) Use a tissue to cover a sneeze	b) Don't share a glass or eating utensil
	c) Wash hands frequently	d) Take a bath daily
	c) wash hands frequently	d) Take a ball daily
13.		
	a) Headaches	b) Constipation
	c) Depression	d) All of these
14.	Which of the following increases your risk:	for type 2 diabetes?
	a) Not getting enough exercise	b) Eating too much sugar
	c) Being overweight	d) (a) and (c)
	c) Being overweight	d) (a) and (c)
15	A gooding to CDC when should inforte to	nt vaccinas accinat acricus discoss-9
15.	According to CDC, when should infants sta	_
	a) Birth	b) 2 months old
	c) 6 weeks old	d) 6 months old

17	M. 4	
16.	Modes of horizontal transmission of disease	•
	a) Contact	b) Vector
	c) Common vehicle	d) Genetic
17.	proportion of the members of the group are a) Active immunity	b) Passive immunity
	c) Herd immunity	d) Specific immunity
18.	unexpected.	r of cases of disease that is usually large or
	a) Endemic	b) Epidemic
	c) Pandemic	d) Infection
19.	Leading cause of diarrheal disease	
	a) Enterotoxigenic Escherichia coli	b) Salmonella (non-typhoid)
	c) Rotavirus	d) Campylobacter jejuni
	A A Y	
20.	Mammography should be done annually in	women of what age?
	a) 50 years old and above	b) 60 years old and above
	c) 45 years old and above	d) 30 years old and above
21.	Alcohol abuse and smoke share a window o	
	a) Adolescence	b) Adulthood
	c) Middle age	d) Old age
		00
22.	Adolescents involved in risky behaviours of	
	a) high self-esteem	b) a large peer group
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23.	Chemical dependence in generally known to	
	a) 42 and 51	b) 22 and 31
	c) 12 and 21	d) 32 and 41
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24.	Alcoholics anonymous maintains that alcoholics	olism is
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25.	Which of the following is true of the synerg	istic effects of smoking?
4 J.	a) It helps to reduce stress and maintain a lo	
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	d) It reduces the chances of early mortality	1 115K 14CW15
	a, it reduces the chances of early mortality	
26.	The interaction between weight and smokin	a can increase one's
4 U.	a) Mortality	b) Self control
	c) Deviant behaviour	d) Fertility
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Version C - 3 of 6

27.	Which of the following is not a characterist	
	a) Habitual behaviour	b) Loss of control
	c) Negative consequence	d) Denial
	, ,	
28.	Addiction involves an excessive	
-0.	a) Tolerance for alcohol or drugs	\(\cdot\)
	b) Amount of debt or financial problems	
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	c) Preoccupation with the addictive behavior	
	d) Risk of losing one's job or failing out of	school
••		
29.		mptoms that occur when use of an addictive
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30.	Transdermal drug administration means that	at a drug is
50.	a) Placed under the tongue	b) Injected into a vein
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	c) Absorbed through the skin	d) Inhaled
		Y
31.	Which of the following components are ma	jor nutrients in our food?
	a) Carbohydrates	b) Lipids and proteins
	c) Vitamins and minerals	d) All of these
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32.	The benefits in eating a balanced diet	
	a) good health	b) good mood and energy
	c) improved health and reduced illness	d) All of these
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24	In a backley diet as you WIIO the assessment of	f144- h
34.	In a healthy diet as per WHO the amount o	
	a) less than 5g	b) less than 5 mg
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_ <		
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	a) Body Material Index	b) Body Mass Index
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	a) Nervous system blockage	b) Sleeping disorder
	c) Eating disorder	d) Physical disability
		, ,
	A	
37.	Which of the following food items provides	s dietary fibre?
	a) Pulses	b) Wholegrain
	c) Fruits and vegetables	d) All of these
	o, i rano una regolucio	3) 1 III 01 Mese

Version C - 4 of 6

38.	Which are intimately related?	
	a) Diseases and health	b) Body and health
	c) Body and mind	d) Body and spiritual values
39.	Exercise is often described as training an	
	a) Exertion of the heart	b) Exertion of the lungs
	c) Exertion of the muscles	d) All of these
		Y
40.	Exercising regularly should be a/an	not a short-term activity, so think of your
	progress as part of a long term plan to lin	
	a) Lifestyle	b) Choice
	c) Obligation	d) None of these
41.	According to WHO, heath is	
	a) A state of body and mind in a balance	ed condition.
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42.	Psychosis is characterized by	
	a) Loss of touch with reality	
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	d) All the above	
42	Which are a Call and the Contains Contains a	4-41-4
43.	Which one of the following factors affect a) Endocrinal glands	b) Nutritious diet
	c) Diseases and injuries	d) All of these
	c) Diseases and injuries	d) All of these
44.	Which year did the World Health Org	ganization first express the right to health as a
	Fundamental Human Right?	
	a) 1946	b) 1952
	c) 1987	d) 2000
4.5	390:1 64 41: 11 14 1 1	1 210
45.	Which of these things is health psychology What appears illness?	
	a) What causes illness?c) How should illness be treated?	b) Who is responsible for illness?
	c) How should filliess be treated?	d) All of these
46.	Which of these is not an example of a he	ealth behaviour?
	a) Smoking	b) Taking regular exercise
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47.	Which statement is wrong in the context	t of personality?
	a) Personality is unique and specific	
	b) Personality is a joint product of hered	
		cious and unconscious behaviour of the person
	d) Personality is limited only to the appe	earance of a person

- **48.** Who proposed the biopsychosocial model?
 - a) Freud

b) Sontag

c) Engel

- d) None of these
- **49.** Which of these is not a benefit of mindfulness?
 - a) Reduced anxiety and stress

b) Decreasing depression

c) Decreased emotional regulation

d) Better memory

- **50.** Mental health hazards includes
 - a) Anxiety
 - b) Depression
 - c) Organic mental disorders due to substance use
 - d) All of the above

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USN											Question Paper Version: I	D
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First/Second Semester B.E./B.Tech./B.Arch./B.Planning Degree Examination, July/August 2022

Scientific Foundations of Health

(COMMON TO ALL BRANCHES)

Time: 1 hrs.]		[Max. Marks: 5
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INSTRUCTIONS TO THE CANDIDATES

1.	Answer al	I the fifty	questions,	each question	on carries one	e mark.
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- Use only Black ball point pen for writing / darkening the circles. 2.
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- Damaging/overwriting, using whiteners on the OMR sheets are strictly

	prohibited.		
1.	Alcohol abuse and smoke share a window	of vulnerability especially during	
	a) Adolescence	b) Adulthood	
	c) Middle age	d) Old age	
2.	Adolescents involved in risky behaviours of	often have	
	a) high self-esteem	b) a large peer group	
	c) poor self-control	d) a tolerant attitude	
3.	Chemical dependence in generally known	to start between the ages of	_
	a) 42 and 51	b) 22 and 31	
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		Y	
4.	Alcoholics anonymous maintains that alcoholics	holism is	
	a) a discoss that can be cured		

- a) a disease that can be cured
- b) a disease that can be managed but never cured
- c) a problem only if a person starts experiencing its synergistic effects
- d) a serious problem only for binge drinkers
- 5. Which of the following is true of the synergistic effects of smoking?
 - a) It helps to reduce stress and maintain a lower body weight
 - b) It increases a person's likelihood of engaging in physical exercises
 - c) It enhances the detrimental effects of other risk factors
 - d) It reduces the chances of early mortality

υ.	a) Mortality c) Deviant behaviour	b) Self control d) Fertility
7.	Which of the following is not a characteristica) Habitual behaviour c) Negative consequence	c of addition? b) Loss of control d) Denial
8.	Addiction involves an excessive a) Tolerance for alcohol or drugs b) Amount of debt or financial problems c) Preoccupation with the addictive behavio d) Risk of losing one's job or failing out of s	
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13.	Which one of the following factors affects to a) Endocrinal glands c) Diseases and injuries	he development of child? b) Nutritious diet d) All of these
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22.	Which is the most important hygiene habit ta) Use a tissue to cover a sneeze c) Wash hands frequently	o teach young children? b) Don't share a glass or eating utensil d) Take a bath daily
23.	Chronic stress has been linked to which of the a) Headaches c) Depression	hese health problems? b) Constipation d) All of these
24.	Which of the following increases your risk fa) Not getting enough exercise c) Being overweight	for type 2 diabetes? b) Eating too much sugar d) (a) and (c)
25.	According to CDC, when should infants star a) Birth c) 6 weeks old	rt vaccines against serious diseases? b) 2 months old d) 6 months old
26.	Modes of horizontal transmission of disease a) Contact c) Common vehicle	, except b) Vector d) Genetic

27.	An infected person is less likely to encorproportion of the members of the group are a) Active immunity c) Herd immunity	counter a susceptible person when a large immune. b) Passive immunity d) Specific immunity
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29.	Leading cause of diarrheal disease a) Enterotoxigenic Escherichia coli c) Rotavirus	b) Salmonella (non-typhoid)d) Campylobacter jejuni
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34.	From the following identify the skills promotion (i) Reading and listening (ii) Listening and helping (iii) Helping and speaking (iv) Speaking and writing a) (i) and (ii) only c) (i) and (iv) only	b) (ii) and (iii) only d) (iii) and (iv) only
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	a) Unsupportive	b) Oppressive		
	c) Criticize in a joking manner	d) Solve problems together		
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20.	a) Self preservation	b) Sexual		
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39.	What are the steps to increase the vocal clar			
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40.	What is the goal of social engineering?			
	a) Sabotage a person's social media	b) To gain vital personal information		
	c) To catfish someone	d) To build trust		
41.	Which of the following components are major nutrients in our food?			
	a) Carbohydrates	b) Lipids and proteins		
	c) Vitamins and minerals	d) All of these		
42.	The benefits in eating a balanced diet			
	a) good health	b) good mood and energy		
	c) improved health and reduced illness	d) All of these		
43.	Nutritional means	<u> </u>		
	a) Tastes really good			
	b) Tastes really bad			
	c) Containing necessary substances for the b	oody to grow and stay healthy		
	d) Is mostly green			
44.	In a healthy diet as per WHO the amount of	salt to be consumed by a person per day is		
	a) less than 5g	b) less than 5 mg		
	c) less than 50 mg	d) less than 0.5 g		
		,		
45.	BMI stands for			
	a) Body Material Index	b) Body Mass Index		
	c) Body Mass Indicator	d) None of these		
46.	What is anorexia nervosa?			
	a) Nervous system blockage	b) Sleeping disorder		
	c) Eating disorder	d) Physical disability		
		•		

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47.	Which of the following food item a) Pulses c) Fruits and vegetables	ns provides dietary fibre? b) Wholegrain d) All of these	
48.	Which are intimately related? a) Diseases and health c) Body and mind	b) Body and health d) Body and spiritual value	
49.	Exercise is often described as trai a) Exertion of the heart c) Exertion of the muscles	ning and should include b) Exertion of the lungs d) All of these	,
50.	Exercising regularly should be a progress as part of a long term plata) Lifestyle c) Obligation		, so think of your
	c) congation	d) None of these	
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