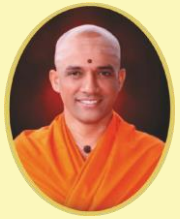




|| Jai Sri Gurudev ||

BGSKH Education Trust(R.) - A unit of Sri Adichunchanagiri Shikshana Trust(R.)

BGS College Of Engineering and Technology



Mahalakshmpuram, Bengaluru – 560 086

(Approved by AICET – New Delhi, Affiliated to VTU, Belagavi)



**VTU - II Semester June/July - 2025 - Exam
Question Papers**

Chemistry Cycle





Chemistry Cycle

II Semester Question Papers June/July - 2025

Sl.No	Name of the Subject	Subject Code
1	Mathematics - II for CSE Stream	BMATS201
2	Applied Chemistry for CSE Stream	BCHE102/202
3	Introduction to Python Programming	BPLCK205B/BPLCKB205
4	Introduction to Electronics and Communication	BESCK204/BESCKC204
5	Scientific Foundations of Health	BSFHK158/BSFHK258/22BD27
6	Indian Constitution	BICOK107/207
7	Professional Writing Skills in English	BPWSK106/22BD2

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Second Semester B.E./B.Tech. Degree Examination, June/July 2025

Mathematics – II for CSE Stream

Time: 3 hrs.

Max. Marks: 100

- Note:** 1. Answer any FIVE full questions, choosing ONE full question from each module.
 2. VTU Formula Hand Book is permitted.
 3. M : Marks , L: Bloom's level , C: Course outcomes.

Module – 1			M	L	C
Q.1	a.	Evaluate $\int_{-1}^1 \int_0^z \int_{x-z}^{x+z} (x+y+z) dy dx dz$	07	L3	CO1
	b.	Evaluate $\int_0^\infty \int_x^\infty \frac{e^{-y}}{y} dy dx$ by changing the order of integration.	07	L3	CO1
	c.	Show that $\beta(m,n) = \frac{\Gamma(m) \cdot \Gamma(n)}{\Gamma(m+n)}$	06	L2	CO1
OR					
Q.2	a.	Evaluate $\int_0^1 \int_0^{\sqrt{1-y^2}} (x^2 + y^2) dy dx$ by changing to polar coordinates.	07	L3	CO1
	b.	Using double integration find the area of a plate in the form of a quadrant of the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$	07	L3	CO1
	c.	Using mathematical tools, write the code to find the volume of the tetrahedron bounded by the planes $x = 0, y = 0, z = 0$ and $6x + 3y + 2z = 6$.	06	L3	CO5
Module – 2					
Q.3	a.	Find the angle between the surfaces $x^2 + y^2 + z^2 = 9$ and $z = x^2 + y^2 - 3$ at the point $(2, -1, 2)$.	07	L2	CO2
	b.	Evaluate $\text{div } \vec{F}$ and $\text{curl } \vec{F}$ at the point $(1, 2, 3)$, given $\vec{F} = \text{grad}(x^3y + y^3z + z^3x - x^2y^2z^2)$	07	L3	CO2
	c.	Express the vector $\vec{F} = 2x\hat{i} - 3y^2\hat{j} + zx\hat{k}$ in cylindrical form.	06	L3	CO2
OR					
Q.4	a.	Find the directional derivative of $\phi(x, y, z) = x^2yz + yxz^2$ at $(1, -2, 1)$ in the direction of the vector $2\hat{i} - \hat{j} - 2\hat{k}$.	07	L2	CO2
	b.	Show that the vector $\vec{F} = \frac{x\hat{i} + y\hat{j}}{x^2 + y^2}$ is both solenoidal and irrotational.	07	L3	CO2
	c.	Using mathematical tool, write the code to find the gradient of $xy^3 + yz^3$.	06	L3	CO5

Module – 3

Q.5	a.	Show that the set $W = \{(x, y, z) / x + y + 2z = 0\}$ of the vector space $V_3(R)$ is a subspace of $V_3(R)$.	07	L2	CO3
	b.	Find the basis and dimension of the subspace spanned by the vectors $\{(1, -1, 0), (0, 3, 1), (1, 2, 1), (2, 4, 2)\}$ in R^3 .	07	L3	CO3
	c.	Find the matrix of the linear transformation $T : V_2(R) \rightarrow V_3(R)$ such that $T(-1, 1) = (-1, 0, 2)$ and $T(2, 1) = (1, 2, 1)$.	06	L2	CO3

OR

Q.6	a.	Determine whether the following set of vectors in 2×2 matrix space is linearly independent or linearly dependent: $S = \{v_1, v_2, v_3\}$ where $v_1 = \begin{bmatrix} 2 & 1 \\ 0 & 1 \end{bmatrix}$, $v_2 = \begin{bmatrix} 3 & 0 \\ 2 & 1 \end{bmatrix}$ and $v_3 = \begin{bmatrix} 1 & 0 \\ 2 & 0 \end{bmatrix}$	07	L2	CO3
	b.	Prove that $T : R^3 \rightarrow R^2$ defined by $T(x, y, z) = (x + y, y + 2z)$ is a linear transformation.	07	L2	CO3
	c.	Verify the Rank – nullity theorem for the linear transformation $T : R^3 \rightarrow R^2$ defined by $T(x, y, z) = (y - x, y - z)$.	06	L2	CO3

Module – 4

Q.7	a.	Find a real root of the equation $x \log_{10} x = 1.2$ by regula falsi method corrected to 4 decimal places between (2.5, 3). Carry out 4 iterations.	07	L2	CO4												
	b.	From the following table of half yearly premium for policies maturing at different ages, estimate the premium for the policies maturing at the age of 46. <table border="1" data-bbox="276 1279 1051 1361"> <tr> <td>Age :</td><td>45</td><td>50</td><td>55</td><td>60</td><td>65</td></tr> <tr> <td>Premium (in Rs.)</td><td>114.84</td><td>96.16</td><td>83.32</td><td>74.48</td><td>68.48</td></tr> </table>	Age :	45	50	55	60	65	Premium (in Rs.)	114.84	96.16	83.32	74.48	68.48	07	L3	CO4
Age :	45	50	55	60	65												
Premium (in Rs.)	114.84	96.16	83.32	74.48	68.48												
	c.	Use Trapezoidal rule to estimate the integration $\int_0^1 \frac{1}{1+x^2} dx$ by taking 10 equal intervals.	06	L3	CO4												

OR

Q.8	a.	Find by Newton's Raphson method, the root of the equation $\cos x = x e^x$ near to 0.5, corrected to 4 decimal places.	07	L2	CO4												
	b.	Using Newton's divided difference interpolation, find the interpolating polynomial of the given data: <table border="1" data-bbox="276 1760 809 1839"> <tr> <td>x :</td><td>-4</td><td>-1</td><td>0</td><td>2</td><td>5</td></tr> <tr> <td>f(x) :</td><td>1245</td><td>33</td><td>5</td><td>9</td><td>+1335</td></tr> </table>	x :	-4	-1	0	2	5	f(x) :	1245	33	5	9	+1335	07	L3	CO4
x :	-4	-1	0	2	5												
f(x) :	1245	33	5	9	+1335												
	c.	Evaluate using Simpson's $(1/3)^{rd}$ rule, $\int_4^{5.2} \log x dx$ by dividing the range (4, 5.2) into seven ordinates.	06	L3	CO4												

Module – 5

Q.9	a.	Solve $y' = 3x + y^2$; $y(0) = 1$ using Taylor's series method at $x = 0.1$ and $x = 0.2$.	07	L3	CO4										
	b.	Given $\frac{dy}{dx} = \frac{y-x}{y+x}$ with $y = 1$ when $x = 0$. Find an approximate y at $x = 0.1$ using Euler's modified method. (Use modified formula twice).	07	L3	CO4										
	c.	From the data given below find y at $x = 1.4$ using Milne's method. Given $\frac{dy}{dx} = x^2 + \frac{y}{2}$. <table border="1"><tr><td>x :</td><td>1</td><td>1.1</td><td>1.2</td><td>1.3</td></tr><tr><td>y :</td><td>2</td><td>2.2156</td><td>2.4549</td><td>2.7514</td></tr></table>	x :	1	1.1	1.2	1.3	y :	2	2.2156	2.4549	2.7514	06	L3	CO4
x :	1	1.1	1.2	1.3											
y :	2	2.2156	2.4549	2.7514											
OR															
Q.10	a.	Using Runge – Kutta method of order 4, find y at $x = 0.2$, given $\frac{dy}{dx} = \frac{x^2 + y^2}{10}$; $y(0) = 1$ taking $h = 0.1$.	07	L3	CO4										
	b.	Using modified Euler's method solve $y' = 3x + \frac{y}{2}$ with $y(0) = 1$ taking $h = 0.2$ at $x = 0.2$. (Use modified Euler's formula twice).	07	L3	CO4										
	c.	Using mathematical tools, write the code to solve $\frac{dy}{dx} = x^2y - 1$; $y(0) = 1$ by Taylor's series method at $x = 0.1$ (0.1) 0.3	06	L3	CO5										

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First/Second Semester B.E./B.Tech. Degree Examination, June/July 2025

Applied Chemistry for CSE Stream

Time: 3 hrs.

Max. Marks: 100

- Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.*
 2. VTU Formula Hand Book is permitted.
 3. M : Marks , L: Bloom's level , C: Course outcomes.

Module – 1			M	L	C
Q.1	a.	What are electrochemical sensors? Explain its application in the measurement of dissolved oxygen.	07	L2	CO1
	b.	Describe the construction, working and applications of lithium ion battery.	07	L2	CO1
	c.	Explain the working principle of conductometric sensors.	06	L2	CO1
OR					
Q.2	a.	Describe the application of electrochemical gas sensors for SO _x and NO _x .	07	L2	CO1
	b.	Describe the construction, working and applications of sodium ion battery.	07	L2	CO1
	c.	Explain the working principle of optical sensors.	06	L2	CO1
Module – 2					
Q.3	a.	What are memory devices? Explain the classification of electronic memory devices with an example.	07	L2	CO2
	b.	Mention any four properties and applications of LCD.	07	L2	CO2
	c.	Mention any four properties and applications of QLED.	06	L2	CO2
OR					
Q.4	a.	What are nano materials? Explain any four properties of polythiophenes (P ₃ HT) suitable for optoelectronic devices.	07	L2	CO2
	b.	Mention any four properties and applications of OLED.	07	L2	CO2
	c.	What are photoactive and electroactive materials.	06	L2	CO3
Module – 3					
Q.5	a.	What is corrosion? Explain the electrochemical theory of corrosion with respect to iron.	07	L2	CO3
	b.	What is a cathodic protection? Explain sacrificial anodic method.	07	L2	CO3
	c.	What are concentration cells? Explain with an example.	06	L2	CO3

OR

Q.6	a.	What are reference electrodes? Explain the construction, working and applications of calomel electrode.	07	L2	CO3
	b.	Draw the nature of conductometric graph for the estimation of weak acid versus strong base and explain the nature of graph.	07	L2	CO3
	c.	Calculate the cell potential of the following concentration cell and comment on the spontaneity of the reaction $\text{Cu} \mid \text{Cu}^{2+} (0.01 \text{ M}) \parallel \text{Cu}^{2+} (0.015 \text{ M}) \mid \text{Cu}$	06	L2	CO3

Module – 4

Q.7	a.	What is number average and weight average molecular weight of polymer?	07	L2	CO4
	b.	What are conducting polymers? Explain the mechanism of conduction in polyacetylene.	07	L2	CO4
	c.	Explain the construction and working of photovoltaic cells.	06	L2	CO4

OR

Q.8	a.	Explain the preparation, properties and commercial applications of Kevlar.	07	L2	CO4
	b.	Explain the generation of energy (green hydrogen) by electrolysis of water and its advantages.	06	L2	CO4
	c.	Polymer sample contains six molecules having molecular weight of 1000 mol/kg. Five molecules having molecular weight of 2000 mol/kg and four molecules having molecular weight of 3000 mol/kg. Calculate number average and weight average molecular weight of polymer.	07	L3	CO4

Module – 5

Q.9	a.	Explain the characteristics and need of e-waste management.	07	L2	CO5
	b.	Explain the extraction of gold from e-waste.	07	L2	CO5
	c.	Explain the role of stake holders in environmental management of e-waste.	06	L2	CO5

OR

Q.10	a.	What is e-waste? Mention the sources and composition of e-waste.	07	L2	CO5
	b.	Explain any two different techniques used to recycling and recovery of e-waste.	07	L2	CO5
	c.	Mention any three toxic materials used in the manufacturing electronic products and electrical products and mention their health hazards.	06	L2	CO5

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Second Semester B.E./B.Tech. Degree Examination, June/July 2025
Introduction to Python Programming

Time: 3 hrs.

Max. Marks: 100

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

2. M : Marks , L: Bloom's level , C: Course outcomes.

Module – 1			M	L	C
Q.1	a.	Explain the print(), input() and string concatenation with examples.	06	L2	CO1
	b.	Explain the scope of local and global variables with suitable example.	06	L2	CO1
	c.	Develop a python program to calculate the area and circumference of a circle, input the value of radius and print the result.	08	L3	CO1
OR					
Q.2	a.	Explain the exception handling mechanism in python. Write a program to solve divide by zero exception.	06	L2	CO1
	b.	Define user defined function. How to pass parameters in functions? Explain with an example.	06	L2	CO1
	c.	Develop a program to generate Fibonacci series of length N. Read the value of N from console.	08	L3	CO1
Module – 2					
Q.3	a.	Explain the following methods with example: i) index() ii) append() iii) extend() iv) remove() v) insert() vi) sort()	06	L2	CO2
	b.	Explain the use of “in” and “not in” operators with suitable examples.	06	L2	CO2
	c.	Develop a program to compute and print mean, variance and standard deviation.	08	L3	CO2
OR					
Q.4	a.	Define tuple data type. List the differences between tuple and list.	06	L2	CO2
	b.	Explain the following dictionary methods with suitable example: i) keys() ii) values() iii) items() iv) setdefault()	08	L2	CO2
	c.	Develop a python program to swap two numbers without using intermediate variable.	06	L3	CO2
Module – 3					
Q.5	a.	Explain the following methods with suitable examples: i) upper() ii) isupper() iii) lower() iv) islower.	08	L2	CO3
	b.	Explain the concept of file handling. Also discuss absolute and relative file path.	06	L2	CO3
	c.	Develop a python program to check whether the given string a palindrome or not palindrome.	06	L3	CO3
1 of 2					

OR

Q.6	a.	Explain the join() and Split() methods with suitable examples.	06	L2	CO3
	b.	Explain the following methods with examples: i) isalpha() ii) isalnum() iii) isSpace()	06	L2	CO3
	c.	Illustrate with an example the process of reading from and writing to a file in python.	08	L3	CO3

Module – 4

Q.7	a.	Explain the following file operations in python with suitable example: i) Copying files and folders ii) Moving files and folders iii) Deleting files and folders	06	L2	CO3
	b.	What are Assertions? Explain the contents of assert statement with examples.	08	L2	CO3
	c.	Illustrate with an example the concept of walking a directory tree.	06	L2	CO1

OR

Q.8	a.	Illustrate the logging levels in python.	06	L2	CO3
	b.	List out the differences between Shutil.copy() and Shutil.copytree() methods.	06	L2	CO3
	c.	Develop a program with a function named DivExp which takes two parameters a and b and returns c ($c = a/b$). Write suitable assertion for $a > 0$ in function DivExp and raise an exception for when $b = 0$. Develop a python program which reads two values from the console and calls a function DivExp.	08	L3	CO3

Module – 5

Q.9	a.	Define classes and objects in python. Construct a class called rectangle and initialize it with height = 100, width = 200, starting point as (x = 0, y = 0) and write the method to display the center point coordinates of a rectangle.	08	L2	CO4
	b.	Explain __init__() and __str__() methods with examples.	06	L2	CO4
	c.	Define pure function. Explain the same with an example.	06	L2	CO4

OR

Q.10	a.	Define a function which takes two objects representing complex numbers and returns a new complex number with a addition of two complex numbers. Define a class 'complex' to represent the complex number. Develop a python program to read N ($N \geq 2$) complex numbers and to compute the addition of N complex numbers.	08	L2	CO4
	b.	Explain the printing of objects with an example.	06	L2	CO4
	c.	Explain the concept of inheritance with an example.	06	L2	CO4

Second Semester B.E./B.Tech. Degree Examination, June/July 2025

Introduction to Electronics and Communication

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks, L: Bloom's level, C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	With a neat diagram, explain the working of a DC power supply. Also mention the principal components used in each block.	10	L2	CO1
	b.	With circuit diagram and waveform explain the working of full wave rectifier.	10	L2	CO1
OR					
Q.2	a.	List and describe the main types of amplifiers.	7	L2	CO1
	b.	With circuit diagram explain the following voltage doubler, voltage Tripler.	6	L3	CO1
	c.	Mention the advantage of negative feedback in amplifier circuit with relevant equations and diagram. Explain the concept of negative feedback.	7	L2	CO1
Module – 2					
Q.3	a.	List and explain the conditions to obtain sustained oscillations. Determine the frequency of oscillations of a 3 stage ladder network in which $C = 10 \text{ nF}$ and $R = 10 \text{ K}\Omega$.	10	L3	CO2
	b.	With circuit diagram and waveform show how operational amplifier can work as a comparator and voltage follower.	10	L3	CO2
OR					
Q.4	a.	With neat circuit diagram explain the working of Wein Bridge oscillator.	10	L2	CO2
	b.	Sketch the circuit of each of the following based on the use of operational amplifier. i) Inverting amplifier ii) Differentiator	10	L2	CO2
Module – 3					
Q.5	a.	Explain with circuit diagram of full adder.	6	L2	CO3
	b.	Given the two binary numbers $X = 1010100$ and $Y = 1000011$ perform the subtraction i) $X - Y$ ii) $Y - X$ using 2's complement.	6	L3	CO3
	c.	Convert the following number from the given base to the other bases identified : i) Decimal 225 to binary ii) Binary 11010111 to octal iii) Octal 623 to decimal iv) Hexadecimal 2AC5 to decimal.	8	L2	CO3
OR					
Q.6	a.	Express the Boolean function $F_1 = A + B'C$ in a sum of minterms form and $F_2 = XY + X'Z$ in a product of maxterms form.	10	L3	CO3
	b.	Design a full adder using two half address and on OR gate.	10	L3	CO3

Module – 4

Q.7	a.	Compare embedded systems and general computing systems and also provide major application areas of embedded system.	10	L2	CO4
	b.	Bring out the difference between RISC and CISC, microprocessor and microcontrollers.	10	L2	CO4

OR

Q.8	a.	Draw the basic block diagram of instrumentation and control system. Also explain feedback based control system.	10	L2	CO4
	b.	With neat diagram explain the working of LED and 7 segment display.	10	L2	CO4

Module – 5

Q.9	a.	With neat diagram explain the basic blocks used in communication system.	10	L2	CO5
	b.	Explain the need for modulation and explain briefly the types of modulations used for communication.	10	L2	CO5

OR

Q.10	a.	What are the advantages and disadvantages of digital communication over analog communication?	10	L2	CO5
	b.	With neat diagram explain the working of time division multiplexing and frequency division multiplexing.	10	L2	CO5

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Question Paper Version : A

**First/Second Semester B.E./B.Tech./B.Design Degree Examination,
June/July 2025**

Scientific Foundations of Health

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. Being inactive form of lifestyle is called as
 - a) Sedentary lifestyle
 - b) Spirited lifestyle
 - c) Busy lifestyle
 - d) Lively
 2. 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
 3. Which among these considered as positive stress?
 - a) Acute stress
 - b) Chronic stress
 - c) Episodic stress
 - d) Eustress.
 4. Which of the following factors is necessary for a healthy person?
 - a) Vaccination
 - b) Balanced diet
 - c) Personal Hygiene
 - d) All of these
 5. Emotional health brings an ability in individuals to
 - a) React to the situation
 - b) Respond to the situation
 - c) Withdraw from the situation
 - d) None of these
 6. Which of the following food items provides dietary fibre?
 - a) Pulses
 - b) Wholegrain
 - c) Fruits and vegetables
 - d) All of these

7. Which one of the following is not a bacterial disease?
a) AIDS
b) Dengue
c) Measles
d) All of these
8. In _____, blood glucose homeostasis ceases to function because the beta cells of the pancreatic islets are destroyed.
a) Type 1 diabetes mellitus
b) Type 2 diabetes mellitus
c) Gestational diabetes
d) None of these
9. Spiritual wellness involves:
a) Developing compassion, caring and forgiving
b) Peace of mind, happiness and mercy
c) Human values, honesty and self-realization
d) All of these
10. Who proposed the biopsychosocial model?
a) Freud
b) Sontag
c) Engel
d) None of these
11. An increased intake of energy foods that are high in fat and sugar leads to
a) Cancer
b) Obesity and overweight
c) Brain haemorrhage
d) Visual disability
12. Anorexia nervosa, Bulimia nervosa, and Binge eaters belong to :
a) Eating disorders
b) Breathing disorders
c) Sleeping disorders
d) All of these
13. How many minutes should an average person walk a day?
a) 30 minutes
b) 40 minutes
c) 20 minutes
d) 45 minutes
14. Which of the following is a Non-Communicable-Disease (NCD)?
a) Stroke
b) Cold
c) Cough
d) Fever
15. The person suffering from Pica disorder craves to eat:
a) Ice
b) Apple
c) Grains
d) Egg
16. The recommended level of salt intake is
a) 9-12g/day
b) 5g/day
c) less than 5g per day
d) All of these
17. BMI stands for
a) Body Material Index
b) Body Mental Index
c) Body Mass Index
d) Body Moving Index
18. Bariatric surgery is a treatment for
a) Gut disorder
b) Overweight
c) Legs
d) Sleeplessness

19. Aerobics is classified as
a) Vigorous – Intensity physical activity b) Moderate physical activity
c) Moderate intensity physical activity d) All of these
20. Which of the following is a behavioural addiction?
a) Nicotine b) Alcohol
c) Drugs d) Gambling
21. Basic instincts of human life
a) All of these b) Self perservance
c) Social d) Sexual
22. Body language plays an important role in
a) Communication b) Judgment
c) Both (a) and (b) d) None of these
23. Our dress code is an example of
a) Verbal b) Non verbal
c) Written d) Spoken
24. Friendship is
a) Dyadic b) Egalitarian
c) Both (a) and (b) d) None of these
25. Barriers of communication are
a) Attitudinal b) Cultural
c) Language d) All of these
26. Which among the following is a type of security instinct of human life?
a) Ambition b) Pride
c) Material d) Both (a) and (c)
27. What is “24-hour rule”?
a) Never sleep on an argument b) Talk about little things in life
c) Face-to-Face communication d) All of these
28. Communication is a part of _____ skill
a) Hard b) Soft
c) Technical d) Rough
29. An example of social engineering is
a) Wearing seat belt b) Banning the use of certain drugs
c) Facility development of health habits d) All of these
30. The ratio of positive to negative behaviours in a healthy relationship is
a) 5 to 1 b) 3 to 1
c) 1 to 1 d) 6 to 1
31. Which of the following is NOT a characteristic of addiction?
a) Negative Consequences b) Loss of control
c) Habitual behavior d) Denial

32. Which of the following statement is true?
a) Addiction leads to physical disorder which in turn leads to mental disorder.
b) Addiction affects physical health
c) Addiction affects mental health
d) All of these
33. A major effect and health hazard from substance addiction is :
a) Loss of control
b) Injury
c) Cardiovascular disease
d) Fetal Damage
34. Excessive use of any drug (legal or illegal) constitutes
a) Drug abuse
b) Drug addiction
c) Drug misuse
d) Drug tolerance
35. _____ is an example of substance addiction.
a) Shopping
b) Video games
c) Tobacco
d) Using the internet
36. Depression, anxiety and loneliness are the effects of :
a) Substance addiction
b) Behavioral addiction
c) Both (a) and (b)
d) None of these
37. The purpose of using drugs is :
a) To detoxify the body
b) To feel high pleasure, relieve stress, forget problems
c) To boost physical health
d) All of these
38. Cognitive-Behavioural Therapy (CBT) helps the addicted patients to overcome:
a) Substance abuse
b) Substance disorder
c) Craving
d) All of these
39. Transdermal drug administration means that a drug is absorbed
a) Through the skin
b) Through Alveoli
c) Through stomach lining
d) Through intestinal walls
40. The psychoactive drug mescaline is obtained from which plant?
a) Peyote cactus
b) Marijuana
c) Mushrooms
d) Poppy
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Question Paper Version : B

**First/Second Semester B.E./B.Tech./B.Design Degree Examination,
June/July 2025**

Scientific Foundations of Health

Time: 1 hr.

Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES

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30. Which of the following is a behavioural addiction?
a) Nicotine
b) Alcohol
c) Drugs
d) Gambling
31. Being inactive form of lifestyle is called as
a) Sedentary lifestyle
b) Spirited lifestyle
c) Busy lifestyle
d) Lively
32. 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
33. Which among these considered as positive stress?
a) Acute stress
b) Chronic stress
c) Episodic stress
d) Eustress.
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b) Balanced diet
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b) Respond to the situation
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39. Spiritual wellness involves:
a) Developing compassion, caring and forgiving
b) Peace of mind, happiness and mercy
c) Human values, honesty and self-realization
d) All of these
40. Who proposed the biopsychosocial model?
a) Freud
b) Sontag
c) Engel
d) None of these

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c) Social
d) Sexual
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b) Judgment
c) Both (a) and (b)
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Question Paper Version : C

**First/Second Semester B.E./B.Tech./B.Design Degree Examination,
June/July 2025**

Scientific Foundations of Health

Time: 1 hr.

Max. Marks: 50

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1. Which of the following is NOT a characteristic of addiction?
a) Negative Consequences b) Loss of control
c) Habitual behavior d) Denial
 2. Which of the following statement is true?
a) Addiction leads to physical disorder which in turn leads to mental disorder.
b) Addiction affects physical health
c) Addiction affects mental health
d) All of these
 3. A major effect and health hazard from substance addiction is :
a) Loss of control b) Injury
c) Cardiovascular disease d) Fetal Damage
 4. Excessive use of any drug (legal or illegal) constitutes
a) Drug abuse b) Drug addiction
c) Drug misuse d) Drug tolerance
 5. _____ is an example of substance addiction.
a) Shopping b) Video games
c) Tobacco d) Using the internet

6. Depression, anxiety and loneliness are the effects of :
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Question Paper Version : D

**First/Second Semester B.E./B.Tech./B.Design Degree Examination,
June/July 2025**

Scientific Foundations of Health

Time: 1 hr.

Max. Marks: 50

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Question Paper Version : A

First/Second Semester B.E./B.Tech. Degree Examination, June/July 2025
Indian Constitution

Time: 1 hr.]

[Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES

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-
1. The Governor of a state is appointed by the President on the advice of the
a) Prime Minister b) Vice - President c) Chief Minister d) Chief - Justice
 2. The President gives his resignation to the
a) Chief Justice b) Parliament c) Vice - President d) Prime Minister
 3. For what period does the Vice President of India hold office?
a) 5 years b) Till the age of 65 years
c) 6 years d) 2 years
 4. Who among the following holds office during the pleasure of the President?
a) Governor b) Election Commissioner
c) Speaker of Lok Sabha d) Prime Minister
 5. Which of the following is not true regarding the payment of the emoluments of the President :
a) They can be reduced during a financial emergency
b) They are shown separately in the budget
c) They are charged on the contingency fund of India
d) They do not require any parliament sanction
 6. The total number of members nominated by the President to the Lok Sabha and the Rajya Sabha is
a) 16 b) 18 c) 14 d) 12

7. Which one of the following does not constitute the electoral college for electing the President?
 - a) Elected members of Lok Sabha
 - b) Elected members of Legislative Assembly of each state
 - c) Elected members of the Legislative council
 - d) Elected members of Rajya Sabha.
8. The Council of ministers in a parliamentary type of Government can remain in office till it enjoys the support of the
 - a) Minority of members of the Upper house of Parliament
 - b) Majority of the members of the Upper house of Parliament
 - c) Minority of members of the Lower house
 - d) Majority of the members of the Lower house of Parliament
9. Which of the following appointments is not made by the President of India?
 - a) Chief of the Army
 - b) Speaker of the Lok Sabha
 - c) Chief Justice of India
 - d) Chief of the Air force
10. Who appoints the Prime Minister of India?
 - a) Lok Sabha
 - b) President
 - c) Parliament
 - d) Citizen of India
11. The first Woman Governor of a State in free India was
 - a) Mrs. Indira Gandhi
 - b) Mrs Vijaya Lakshmi Pandit
 - c) Mrs Sarojini Naidu
 - d) Mrs Sucheta Kripalani
12. Minimum age required to contest for Presidentship is
 - a) 23 years
 - b) 21 years
 - c) 35 years
 - d) 30 years
13. The charge of impeachment against the President of India for his removal can be preferred by
 - a) Both Houses of Parliament
 - b) Speaker of Lok Sabha and Chairman of Rajya Sabha
 - c) Rajya Sabha
 - d) Lok Sabha
14. The Chief Minister of the Union Territory where such a set up exists ; is appointed by the
 - a) Lt. Governor
 - b) Majority party in Legislature
 - c) President
 - d) Prime Minister
15. Who was the first Prime Minister of India?
 - a) Jawaharlal Nehru
 - b) Mrs. Indira Gandhi
 - c) Dr. Rajendra Prasad
 - d) Mahatma Gandhi
16. In case a President dies while in office, the Vice President can act as President for a maximum period of
 - a) 1 year
 - b) 3 months
 - c) 6 months
 - d) 2 years
17. The Union Council of Ministers consists of
 - a) Cabinet Ministers, Minister of State and Deputy ministers
 - b) Cabinet Ministers and Chief Minister of the States
 - c) Prime Minister
 - d) Cabinet Ministers

18. Who administers the Oath of office of the President of India before he enters upon the office?
a) Chief Justice b) Speaker c) Vice President d) Prime Minister
19. Who among the following enjoys the rank of a Cabinet Minister of the Indian Union?
a) Secretary to the Government of India
b) Deputy Chairman of the Planning Commission
c) Deputy Chairman of Rajya Sabha
d) None of the above
20. A person who is not a member of parliament can be appointed as a Minister by the President for a maximum period of
a) 9 Months b) 3 Months c) 12 Months d) 6 Months
21. When can President use his discretion in appointing the Prime Minister?
a) When no political party enjoys a clear majority in the Lok Sabha
b) Only when the Lok Sabha has been dissolved
c) In all circumstances d) In no circumstances
22. If in a Country there happens to be the office of monarchy as well as parliamentary form of Government this monarch will be called
a) Head of the State b) Head of the Cabinet
c) Head of the Government d) Both head of Government and State
23. One feature distinguishing the Rajya Sabha from the Vidhan Parishad is
a) Power of impeachment b) Indirect election
c) Nomination of members d) Tenure of membership
24. Chief Ministers of all the States are ex – officio members of the
a) Planning Commission b) National Development Council
c) Inter State Council d) Finance Commission
25. Who, among the following has the final right to sanction the expenditure of public money in India?
a) Speaker b) President c) Prime Minister d) Parliament
26. Which of the following is not an essential qualification for appointment as a Governor?
a) He must not be a member of either house of Parliament
b) He should be a domicile of the State to which he is being appointed
c) He should be a Citizen of India
d) He must have completed the age of 35 years
27. The President nominates 12 members of Rajya Sabha according to
a) Their performance as office bearers of cultural societies.
b) The recommendation made by the Vice President.
c) Their role played in political set up of the Country.
d) Their distinction in the field of science , art , literature and social service.
28. Which Article of the Constitution empowers the President to appoint a Commission to investigate the condition of backward classes in general and suggest ameliorative measures?
a) Art. 342 b) Art. 344 c) Art. 340 d) Art. 339

29. Who can initiate impeachment proceedings against the President of India?
a) Either house of Parliament b) Any Vidhan Sabha
c) Only Lok Sabha d) Rajya Sabha
30. Who was the member of the Rajya Sabha when first appointed as the Prime Minister of India?
a) Lal Bahadur Shastri b) Charan Singh
c) Morarji Desai d) Indira Gandhi
31. What is the minimum age for appointment as a Governor?
a) 35 years b) 40 years c) 25 years d) 30 years
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33. The administrative and Operational control of the Armed forces is exercised by the
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b) Ministry of Defense
c) Three Chiefs of the Army , Navy and Air forces staff
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a) If the Council of Ministers so , desires b) Yes
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a) Chairman of Rajya Sabha b) President
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40. Who among the following can attend meetings of the Union Cabinet?
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b) Prime Minister duty regarding keeping the President informed about the government decisions and Policies.
c) Emergency powers of the President
d) President's power to send advisory messages to the Parliament.
49. The maximum duration for which the Vice – President may officiate as the President is
a) 1 year b) 6 months c) 4 months d) 9 months
50. The President's rule in a State can be continued for a maximum period of
a) 2 years b) 1 year c) 6 months d) 2½ years

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Question Paper Version : B

First/Second Semester B.E./B.Tech. Degree Examination, June/July 2025
Indian Constitution

Time: 1 hr.]

[Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES

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13. For what period does the Vice President of India hold office?

a) 5 years b) Till the age of 65 years
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a) They can be reduced during a financial emergency
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a) 16 b) 18 c) 14 d) 12
17. Which one of the following does not constitute the electoral college for electing the President?

a) Elected members of Lok Sabha
b) Elected members of Legislative Assembly of each state
c) Elected members of the Legislative council
d) Elected members of Rajya Sabha.

18. The Council of ministers in a parliamentary type of Government can remain in office till it enjoys the support of the
 - a) Minority of members of the Upper house of Parliament
 - b) Majority of the members of the Upper house of Parliament
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31. When can President use his discretion in appointing the Prime Minister?
a) When no political party enjoys a clear majority in the Lok Sabha
b) Only when the Lok Sabha has been dissolved
c) In all circumstances d) In no circumstances
32. If in a Country there happens to be the office of monarchy as well as parliamentary form of Government this monarch will be called
a) Head of the State b) Head of the Cabinet
c) Head of the Government d) Both head of Government and State
33. One feature distinguishing the Rajya Sabha from the Vidhan Parishad is
a) Power of impeachment b) Indirect election
c) Nomination of members d) Tenure of membership
34. Chief Ministers of all the States are ex – officio members of the
a) Planning Commission b) National Development Council
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35. Who, among the following has the final right to sanction the expenditure of public money in India?
a) Speaker b) President c) Prime Minister d) Parliament
36. Which of the following is not an essential qualification for appointment as a Governor?
a) He must not be a member of either house of Parliament
b) He should be a domicile of the State to which he is being appointed
c) He should be a Citizen of India
d) He must have completed the age of 35 years
37. The President nominates 12 members of Rajya Sabha according to
a) Their performance as office bearers of cultural societies.
b) The recommendation made by the Vice President.
c) Their role played in political set up of the Country.
d) Their distinction in the field of science, art, literature and social service.
38. Which Article of the Constitution empowers the President to appoint a Commission to investigate the condition of backward classes in general and suggest ameliorative measures?
a) Art. 342 b) Art. 344 c) Art. 340 d) Art. 339
39. Who can initiate impeachment proceedings against the President of India?
a) Either house of Parliament b) Any Vidhan Sabha
c) Only Lok Sabha d) Rajya Sabha

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Question Paper Version : C

First/Second Semester B.E./B.Tech. Degree Examination, June/July 2025
Indian Constitution

Time: 1 hr.]

[Max. Marks: 50

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Question Paper Version : D

First/Second Semester B.E./B.Tech. Degree Examination, June/July 2025
Indian Constitution

Time: 1 hr.]

[Max. Marks: 50

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21. The first Woman Governor of a State in free India was
 - a) Mrs. Indira Gandhi
 - b) Mrs Vijaya Lakshmi Pandit
 - c) Mrs Sarojini Naidu
 - d) Mrs Sucheta Kripalani
22. Minimum age required to contest for Presidentship is
 - a) 23 years
 - b) 21 years
 - c) 35 years
 - d) 30 years
23. The charge of impeachment against the President of India for his removal can be preferred by
 - a) Both Houses of Parliament
 - b) Speaker of Lok Sabha and Chairman of Rajya Sabha
 - c) Rajya Sabha
 - d) Lok Sabha
24. The Chief Minister of the Union Territory where such a set up exists ; is appointed by the
 - a) Lt. Governor
 - b) Majority party in Legislature
 - c) President
 - d) Prime Minister
25. Who was the first Prime Minister of India?
 - a) Jawaharlal Nehru
 - b) Mrs. Indira Gandhi
 - c) Dr. Rajendra Prasad
 - d) Mahatma Gandhi
26. In case a President dies while in office, the Vice President can act as President for a maximum period of
 - a) 1 year
 - b) 3 months
 - c) 6 months
 - d) 2 years
27. The Union Council of Ministers consists of
 - a) Cabinet Ministers, Minister of State and Deputy ministers
 - b) Cabinet Ministers and Chief Minister of the States
 - c) Prime Minister
 - d) Cabinet Ministers
28. Who administers the Oath of office of the President of India before he enters upon the office?
 - a) Chief Justice
 - b) Speaker
 - c) Vice President
 - d) Prime Minister
29. Who among the following enjoys the rank of a Cabinet Minister of the Indian Union?
 - a) Secretary to the Government of India
 - b) Deputy Chairman of the Planning Commission
 - c) Deputy Chairman of Rajya Sabha
 - d) None of the above

30. A person who is not a member of parliament can be appointed as a Minister by the President for a maximum period of
a) 9 Months b) 3 Months c) 12 Months d) 6 Months
31. The Governor of a state is appointed by the President on the advice of the
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 c) He should be a Citizen of India
 d) He must have completed the age of 35 years
47. The President nominates 12 members of Rajya Sabha according to
 a) Their performance as office bearers of cultural societies.
 b) The recommendation made by the Vice President.
 c) Their role played in political set up of the Country.
 d) Their distinction in the field of science , art ,literature and social service.
48. Which Article of the Constitution empowers the President to appoint a Commission to investigate the condition of backward classes in general and suggest ameliorative measures?
 a) Art. 342
 b) Art. 344
 c) Art. 340
 d) Art. 339
49. Who can initiate impeachment proceedings against the President of India?
 a) Either house of Parliament
 b) Any Vidhan Sabha
 c) Only Lok Sabha
 d) Rajya Sabha
50. Who was the member of the Rajya Sabha when first appointed as the Prime Minister of India?
 a) Lal Bahadur Shastri
 b) Charan Singh
 c) Morarji Desai
 d) Indira Gandhi

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Question Paper Version : A

**First/Second Semester B.E./B.Tech/B.Design Degree Examination,
June/July 2025**

Professional Writing Skills in English

(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.**
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5. **Damaging/overwriting, using whiteners on the OMR sheets are strictly prohibited.**

1. Either Maya or her sisters ____ the answer.
(Identify the correct form of verb)
a) know b) knows c) knowing d) known
2. Everyone ____ to dance at their free time.
(Identify the correct form of verb)
a) likes b) like c) liking d) None of these
3. One of the ____ lost his way while ice hiking. (Choose the correct option)
a) Students b) Student c) Student's d) Students'
4. The chairman and president ____ going to lead the team from today.
(Identify the correct form of verb)
a) is b) are c) have d) were
5. The student who ____ hard will succeed. (Identify the correct form of verb)
a) work b) works c) either work or works d) None of these
6. Pass me ____ sugar from the table. (Choose the correct article)
a) the b) a c) an d) no article

7. ____ cars have you owned so far? (Choose the appropriate option)
a) How b) How many c) How much d) How more
8. Her work is superior ____ mine. (Choose the appropriate preposition)
a) for b) at c) to d) of
9. I haven't seen him ____ yesterday. (Choose the appropriate preposition)
a) since b) for c) during d) until
10. No sooner had she finished one project ____ she started the next.
(Choose the appropriate conjunction)
a) than b) when c) but d) or
11. It's 3:30 pm ____ my watch.
a) by b) on c) in d) with
12. Tables are covered ____ white linen, table cloths. (Choose the appropriate preposition)
a) by b) on c) in d) with
13. Verbal Analogies :
Marathon : Race :: Hibernation : ____
a) Winter b) Bear c) Dream d) Sleep
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a) Argumentative b) Descriptive c) Persuasive d) Narrative
15. What is a descriptive paragraph?
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d) Text explaining a concept or an idea.
16. How many topics should be covered in a paragraph?
a) one b) two c) three d) four
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a) Unity b) Coherence
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a) The load were carefully handled by him.
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c) The load has been carefully handled by him1
d) The load was carefully handled by him.

19. He was praised by his father. (Identify the Active Voice of the given sentence)
a) His father is praising him. b) His father will praise him.
c) His father praised him. d) His father has praised him3
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a) Ground – breaking discovery was made by the scientist.
b) A ground-breaking discovery was made by the scientist.
c) A ground-breaking discovery is made by the scientist.
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21. He asked me “Do you find law interesting?” (Change into Reported Speed)
a) He asked me if I found law interesting.
b) He asked me that if I found law interesting.
c) He asked me do I found law interesting.
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22. He asked, “what time does the train depart?” (Change into Reported Speech)
a) He asked that what time the train did depart.
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c) He asked what time the train does depart.
d) He asked what time the train depart.
23. He said, “Please close the door.” (Change into Reported Speech)
a) He suggested to close the door.
b) He ordered to close the door.
c) He commanded to close the door.
d) He requested to close the door.
24. Spot the error :
The surgery went well (A) / and she was only on the hospital (B) / for two days.
(C) / No Error (D)
a) A b) B c) C d) D
25. An essay is _____.
a) Made up of only one sentence.
b) a series of sentences about a specific subject.
c) a series of sentences about various subject.
d) a series of paragraphs about one main idea.
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 - b) Keep talking.
 - c) have no eye contact with the speaker.
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 - c) Responding with empathy and understanding.
 - d) Non-attentive state of mind.
31. Which of the following is a key component of effective reading comprehension?
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 - b) Reading in a noisy environment with distractions
 - c) Engaging in active reading by highlighting or taking notes
 - d) Skipping over unfamiliar words without trying to understand them
32. Which of the following is a key feature for effective participation in a group discussion?
- a) Dominating the conversation
 - b) Ignoring other opinions
 - c) Active listening and collaboration
 - d) Avoiding eye contact with group members
33. Which of the following is the correct collocation?
- a) Make a decision
 - b) Do a decision
 - c) Create a decision
 - d) Produce a decision
34. During a professional interview, which of the following is an appropriate response to the question, "what are your weaknesses?"
- a) "I don't have any weaknesses."
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 - c) "I struggle with time management, but I'm actively working on improving it."
 - d) "I prefer to work alone and cannot collaborate well with others."
35. What is the primary purpose of technical writing?
- a) to entertain the reader.
 - b) to persuade the reader.
 - c) to inform or instruct the reader.
 - d) to express the writer's emotions.

36. What should be the tone of a technical proposal?
- a) Casual and informal
 - b) Personal and emotional
 - c) Formal and professional
 - d) Playful and humorous
37. The introduction paragraph in an essay _____
- a) provides a summary of the entire text.
 - b) present the main arguments and evidence.
 - c) engages the reader and introduces the topic.
 - d) concludes the writing.
38. Which of the following statements accurately describes the role of a conclusion paragraph?
- a) It primarily introduces new information and ideas.
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39. A job application must include _____.
- a) Unrelated stories.
 - b) Detailed list of job duties from previous positions.
 - c) Brief summary of your key skills and experiences.
 - d) Criticism of the company current practices.
40. Which of the following statement is TRUE in case of Resume writing?
- a) A common resume could be used for any job requirement.
 - b) Modifying very resume to suit a particular job application is beneficial.
 - c) Resume could be of any length.
 - d) Resume may include a list of unrelated hobbies and interests.
41. "Our blessings come from above." Identify the part of speech for the word "above" in the given sentence.
- a) Verb
 - b) Noun
 - c) Adverb
 - d) Preposition.
42. What is the key aspect of effective presentation skills?
- a) Avoiding eye contact with the audience.
 - b) Speaking in a monotone voice.
 - c) Customizing the message to suit the audience's need.
 - d) Reading directly from the slides.
43. When writing a professionals email, what should be avoided in the body of the message?
- a) Clear and concise language
 - b) Informal language and slang
 - c) Relevant attachments
 - d) Proper formatting

44. Which of the following is a form of non-verbal communication?
a) Using gestures and facial expressions
b) Speaking loudly
c) Writing an email
d) Sending a text message
45. Identify the correct word to fill in the blank :
She wore a beautiful _____ at the party.
a) gown b) down c) grown d) ground
46. Which of the following is an example of effective interpersonal skills?
a) Avoiding eye contact during a conversation.
b) Interrupting others while they are speaking.
c) Speaking loudly to dominate the conversation.
d) Actively listening and responding to others.
47. How does effective intrapersonal communication contribute to personal development?
a) By fostering positive self – talk and understanding one’s worth
b) By avoiding self-reflection
c) By ignoring personal goals
d) By ignoring personal worth
48. Choose the sentence that represents a grammatically improved version of the given sentence :
“The weather is bad, yet we’ll go for a picnic.”
a) Although the weather is bad, but will to for a picnics
b) The weather is bad, still we’ll go for a picnic.
c) Despite the bad weather, we’ll go for a picnic.
d) The weather is bad, so we’ll go for a picnic.
49. Identify the sentence with the correct word order :
a) He always completes his homework before dinner.
b) Before dinner, his homework always completes he.
c) His homework he always completes before dinner.
d) Always completes he his homework before dinner.
50. Identify the sentence with the misplaced modifier :
a) The announcement was made by the principal with excitement.
b) With excitement, the principal made the announcement.
c) The principal made the announcement with excitement.
d) The announcement was made with excitement by the principal.

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Question Paper Version : B

First/Second Semester B.E./B.Tech/B.Design Degree Examination,
June/July 2025

Professional Writing Skills in English**(COMMON TO ALL BRANCHES)**

Time: 1 hr.]

[Max. Marks: 50

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CBCS SCHEME

BPWSK106/206/22BD26

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Question Paper Version : C

**First/Second Semester B.E./B.Tech/B.Design Degree Examination,
June/July 2025**

Professional Writing Skills in English

(COMMON TO ALL BRANCHES)

Time: 1 hr.]

[Max. Marks: 50

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- The surgery went well (A) / and she was only on the hospital (B) / for two days. (C) / No Error (D)
- A
 - B
 - C
 - D

35. An essay is _____.
 - a) Made up of only one sentence.
 - b) a series of sentences about a specific subject.
 - c) a series of sentences about various subject.
 - d) a series of paragraphs about one main idea.
36. What should be the primary focus when writing a précis?
 - a) In-depth analysis and personal opinions.
 - b) Detailed explanations and elaborate examples.
 - c) Concise summarization of the main points.
 - d) Lengthy quotations and extensive illustrations.
37. Which of the following is not a rule of précis writing?
 - a) Should always have a title.
 - b) Copy the sentences from the original paragraph.
 - c) Remove irrelevant information present in the original paragraph.
 - d) Should be written in the writer's own words.
38. Choose the currently punctuated sentence :
 - a) I met a beautiful, Indian woman.
 - b) I met a beautiful Indian woman.
 - c) I met a beautiful Indian, woman.
 - d) I met a beautiful, Indian, woman.
39. For active listening, one should ____
 - a) hear, understand, and observe the body language of the speaker.
 - b) Keep talking.
 - c) have no eye contact with the speaker.
 - d) repeat exactly what the speaker says.
40. Which of the following is a barrier to effective listening?
 - a) Maintaining eye contact with the speaker.
 - b) Asking clarifying questions for better understanding.
 - c) Responding with empathy and understanding.
 - d) Non-attentive state of mind.
41. It's 3:30 pm ____ my watch.
 - a) by
 - b) on
 - c) in
 - d) with
42. Tables are covered ____ white linen, table cloths. (Choose the appropriate preposition)
 - a) by
 - b) on
 - c) in
 - d) with
43. Verbal Analogies :
Marathon : Race : : Hibernation : ____
 - a) Winter
 - b) Bear
 - c) Dream
 - d) Sleep

44. The given text is a/an ____ paragraph.
In spite of all the benefits, some parents simply will not allow their children to study abroad. A portion will argue that it is not safe. Other will argue that studying abroad costs too much money. In these cases, it is important to take a look at one semester's financial aid statement. How much does it cost to be a student at a local university? When tuition, housing, textbooks, transportation, and meal plans are considered, it becomes difficult to argue that there is a stark difference in the cost of a semester at home versus a semester abroad.
- a) Argumentative b) Descriptive c) Persuasive d) Narrative
45. What is a descriptive paragraph?
a) Text describing a person, animal, place, or thing
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46. How many topics should be covered in a paragraph?
a) one b) two c) three d) four
47. What is the term for the smooth and logical flow of sentences in a paragraph?
a) Unity b) Coherence
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48. He handled the load carefully. (change into passive voice)
a) The load were carefully handled by him.
b) The load is carefully handled by him.
c) The load has been carefully handled by him1
d) The load was carefully handled by him.
49. He was praised by his father. (Identify the Active Voice of the given sentence)
a) His father is praising him. b) His father will praise him.
c) His father praised him. d) His father has praised him3
50. The scientist made a ground-breaking discovery. (Change into Passive voice)
a) Ground – breaking discovery was made by the scientist.
b) A ground-breaking discovery was made by the scientist.
c) A ground-breaking discovery is made by the scientist.
d) A ground-breaking discovery has been made by the scientist.

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Question Paper Version : D

**First/Second Semester B.E./B.Tech/B.Design Degree Examination,
June/July 2025**

Professional Writing Skills in English

(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. He asked me "Do you find law interesting?" (Change into Reported Speech)
 - a) He asked me if I found law interesting.
 - b) He asked me that if I found law interesting.
 - c) He asked me do I found law interesting.
 - d) He asked me that I found law interesting.
2. He asked, "what time does the train depart?" (Change into Reported Speech)
 - a) He asked that what time the train did depart.
 - b) He asked what time the train did depart.
 - c) He asked what time the train does depart.
 - d) He asked what time the train depart.
3. He said, "Please close the door." (Change into Reported Speech)
 - a) He suggested to close the door.
 - b) He ordered to close the door.
 - c) He commanded to close the door.
 - d) He requested to close the door.
4. Spot the error :
 The surgery went well (A) / and she was only on the hospital (B) / for two days.
 (C) / No Error (D)

a) A
b) B
c) C
d) D

5. An essay is _____.
 - a) Made up of only one sentence.
 - b) a series of sentences about a specific subject.
 - c) a series of sentences about various subject.
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9. For active listening, one should _____.
 - a) hear, understand, and observe the body language of the speaker.
 - b) Keep talking.
 - c) have no eye contact with the speaker.
 - d) repeat exactly what the speaker says.
10. Which of the following is a barrier to effective listening?
 - a) Maintaining eye contact with the speaker.
 - b) Asking clarifying questions for better understanding.
 - c) Responding with empathy and understanding.
 - d) Non-attentive state of mind.
11. "Our blessings come from above." Identify the part of speech for the word "above" in the given sentence.

a) Verb	b) Noun
c) Adverb	d) Preposition.
12. What is the key aspect of effective presentation skills?
 - a) Avoiding eye contact with the audience.
 - b) Speaking in a monotone voice.
 - c) Customizing the message to suit the audience's need.
 - d) Reading directly from the slides.
13. When writing a professionals email, what should be avoided in the body of the message?
 - a) Clear and concise language
 - b) Informal language and slang
 - c) Relevant attachments
 - d) Proper formatting

14. Which of the following is a form of non-verbal communication?
- Using gestures and facial expressions
 - Speaking loudly
 - Writing an email
 - Sending a text message
15. Identify the correct word to fill in the blank :
She wore a beautiful _____ at the party.
- gown
 - down
 - grown
 - ground
16. Which of the following is an example of effective interpersonal skills?
- Avoiding eye contact during a conversation.
 - Interrupting others while they are speaking.
 - Speaking loudly to dominate the conversation.
 - Actively listening and responding to others.
17. How does effective intrapersonal communication contribute to personal development?
- By fostering positive self – talk and understanding one’s worth
 - By avoiding self-reflection
 - By ignoring personal goals
 - By ignoring personal worth
18. Choose the sentence that represents a grammatically improved version of the given sentence :
- “The weather is bad, yet we’ll go for a picnic.”
- Although the weather is bad, but will to for a picnics
 - The weather is bad, still we’ll go for a picnic.
 - Despite the bad weather, we’ll go for a picnic.
 - The weather is bad, so we’ll go for a picnic.
19. Identify the sentence with the correct word order :
- He always completes his homework before dinner.
 - Before dinner, his homework always completes he.
 - His homework he always completes before dinner.
 - Always completes he his homework before dinner.
20. Identify the sentence with the misplaced modifier :
- The announcement was made by the principal with excitement.
 - With excitement, the principal made the announcement.
 - The principal made the announcement with excitement.
 - The announcement was made with excitement by the principal.
21. Which of the following is a key component of effective reading comprehension?
- Reading as quickly as possible to cover more material
 - Reading in a noisy environment with distractions
 - Engaging in active reading by highlighting or taking notes
 - Skipping over unfamiliar words without trying to understand them

22. Which of the following is a key feature for effective participation in a group discussion?
- a) Dominating the conversation
 - b) Ignoring other opinions
 - c) Active listening and collaboration
 - d) Avoiding eye contact with group members
23. Which of the following is the correct collocation?
- a) Make a decision
 - b) Do a decision
 - c) Create a decision
 - d) Produce a decision
24. During a professional interview, which of the following is an appropriate response to the question, "what are your weaknesses?"
- a) "I don't have any weaknesses."
 - b) "I work too hard and am a perfectionist."
 - c) "I struggle with time management, but I'm actively working on improving it."
 - d) "I prefer to work alone and cannot collaborate well with others."
25. What is the primary purpose of technical writing?
- a) to entertain the reader.
 - b) to persuade the reader.
 - c) to inform or instruct the reader.
 - d) to express the writer's emotions.
26. What should be the tone of a technical proposal?
- a) Casual and informal
 - b) Personal and emotional
 - c) Formal and professional
 - d) Playful and humorous
27. The introduction paragraph in an essay _____
- a) provides a summary of the entire text.
 - b) present the main arguments and evidence.
 - c) engages the reader and introduces the topic.
 - d) concludes the writing.
28. Which of the following statements accurately describes the role of a conclusion paragraph?
- a) It primarily introduces new information and ideas.
 - b) It summarizes the key points.
 - c) It focuses on presenting supporting.
 - d) It engages the reader with personal stories.
29. A job application must include _____.
- a) Unrelated stories.
 - b) Detailed list of job duties from previous positions.
 - c) Brief summary of your key skills and experiences.
 - d) Criticism of the company current practices.

30. Which of the following statement is TRUE in case of Resume writing?
 a) A common resume could be used for any job requirement.
 b) Modifying very resume to suit a particular job application is beneficial.
 c) Resume could be of any length.
 d) Resume may include a list of unrelated hobbies and interests.
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 a) by b) on c) in d) with
32. Tables are covered ____ white linen, table cloths. (Choose the appropriate preposition)
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 c) A ground-breaking discovery is made by the scientist.
 d) A ground-breaking discovery has been made by the scientist.
41. Either Maya or her sisters _____ the answer.
 (Identify the correct form of verb)
 a) know b) knows c) knowing d) known
42. Everyone _____ to dance at their free time.
 (Identify the correct form of verb)
 a) likes b) like c) liking d) None of these
43. One of the _____ lost his way while ice hiking. (Choose the correct option)
 a) Students b) Student c) Student's d) Students'
44. The chairman and president _____ going to lead the team from today.
 (Identify the correct form of verb)
 a) is b) are c) have d) were
45. The student who _____ hard will succeed. (Identify the correct form of verb)
 a) work b) works c) either work or works d) None of these
46. Pass me _____ sugar from the table. (Choose the correct article)
 a) the b) a c) an d) no article
47. _____ cars have you owned so far? (Choose the appropriate option)
 a) How b) How many c) How much d) How more
48. Her work is superior _____ mine. (Choose the appropriate preposition)
 a) for b) at c) to d) of
49. I haven't seen him _____ yesterday. (Choose the appropriate preposition)
 a) since b) for c) during d) until
50. No sooner had she finished one project _____ she started the next.
 (Choose the appropriate conjunction)
 a) than b) when c) but d) or

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