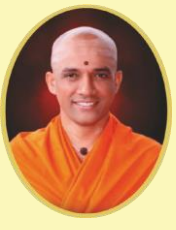


|| Jai Sri Gurudev ||



BGSKH Education Trust(R.) - A unit of Sri Adichunchanagiri Shikshana Trust(R.)  
**BGS College Of Engineering and Technology**



**VTU – Dec. 2025 /Jan. 2026 – I Sem Question Papers**

**Chemistry Cycle - 2025 - Scheme**





## 2025-Scheme - Dec.2025/Jan.2026

### Theory Question Papers for Frist Semester

### Chemistry Cycle – 2025 Scheme

Sl.No	Name of the Subject	Subject Code
1.	Calculus and Linear Algebra : CSE Stream	1BMATS101
2.	Applied Chemistry for Smart System	1BCHE102
3.	Introduction to AI and Applications	1BAIA103
4.	Introduction to Mechanical Engineering	1BESC104D
5.	Python Programming	1BPLC105B
6.	Communication Skills	1BENG106

# CBCS SCHEME

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1BMATS101

## First Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026 Calculus and Linear Algebra : CSE Stream

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.  
3. VTU Handbook is permitted.*

Module – 1			M	L	C
<b>Q.1</b>	<b>a.</b>	Find the total derivative when $u = x^3y^2 + x^2y^3$ where $x = at^2, y = 2at$	6	L2	CO1
	<b>b.</b>	If $u = \log(\tan x + \tan y + \tan z)$ then, show that $\sin 2x \frac{\partial u}{\partial x} + \sin 2y \frac{\partial u}{\partial y} + \sin 2z \frac{\partial u}{\partial z} = 2$	7	L2	CO1
	<b>c.</b>	Expand $e^x \sin y$ in the powers of x and y as far as terms of third term using Maclaurin's series.	7	L3	CO1
OR					
<b>Q.2</b>	<b>a.</b>	If $u = x + y + z, v = x^2 + y^2 + z^2, w = xy + yz + zx$ . Evaluate the Jacobian of (u, v, w) with respect to (x, y, z).	6	L2	CO1
	<b>b.</b>	If $u = f\left(\frac{x}{y}, \frac{y}{z}, \frac{z}{x}\right)$ then prove that $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} + z \frac{\partial u}{\partial z} = 0$	7	L2	CO1
	<b>c.</b>	Examine the function for the extreme values, given $f(x, y) = x^3 + 3xy^2 - 15x^2 - 15y^2 + 72x$	7	L3	CO1
Module – 2					
<b>Q.3</b>	<b>a.</b>	Find the directional derivative of $\phi = x^2yz + 4xz^2$ at the point (1,-2,-1) in the direction $2\hat{i} - \hat{j} - 2\hat{k}$ .	6	L2	CO1
	<b>b.</b>	Show that $\vec{F} = (y + z)\hat{i} + (z + x)\hat{j} + (x + y)\hat{k}$ is irrotational and find the scalar potential.	7	L2	CO1
	<b>c.</b>	With usual notation, Prove that cylindrical polar coordinate system is orthogonal.	7	L3	CO1
OR					
<b>Q.4</b>	<b>a.</b>	Given $\vec{F} = \nabla(xy^3z^2)$ , Find $\text{div}(\vec{F})$ and $\text{curl}(\vec{F})$ at (1,-1,1).	6	L2	CO1
	<b>b.</b>	Show that $\vec{F} = \frac{x\hat{i} + y\hat{j}}{x^2 + y^2}$ is both solenoidal and irrotational.	7	L2	CO1
	<b>c.</b>	Express $2y\hat{i} - z\hat{j} + 3x\hat{k}$ in terms of spherical polar coordinates.	7	L3	CO1

Module – 3					
Q.5	a.	Find the rank of the matrix $A = \begin{bmatrix} 2 & 1 & -1 & 3 \\ 1 & 2 & 4 & 3 \\ 3 & 6 & 12 & 9 \\ 3 & 3 & 3 & 6 \end{bmatrix}$	6	L2	CO2
	b.	Using Gauss Jordan method, solve the system of equations $x + y + z = 9, x - 2y + 3z = 8, 2x + y - z = 3.$	7	L2	CO2
	c.	Diagonalize the matrix $\begin{bmatrix} -1 & 3 \\ -2 & 4 \end{bmatrix}$ .	7	L3	CO2
OR					
Q.6	a.	Investigate the value of $\mu$ and $\lambda$ such that the equations, $x + y + z = 6, x + 2y + 3z = 10, x + 2y + \lambda z = \mu$ , may have (i) unique solution (ii) infinite solution (iii) no solution	6	L2	CO2
	b.	Using Gauss Elimination method, solve the system of equations $x + 2y + z = 3, 2x + 3y + 3z = 10, 3x - y + 2z = 13$	7	L2	CO2
	c.	Find the eigen value and eigen vectors of the matrix $A = \begin{bmatrix} 1 & 1 & 3 \\ 1 & 5 & 1 \\ 3 & 1 & 1 \end{bmatrix}$	7	L3	CO2
Module – 4					
Q.7	a.	Determine whether the vectors $(8,0,5)$ is a linear combination of the vectors $(1,2,3), (0,1,4), (2, -1,1)$	6	L2	CO3
	b.	Find the basis and dimension of the subspace spanned by the vectors $(2,4,2), (1, -1,0), (1,2,1), (0,3,1)$ in $V_3(R)$ .	7	L2	CO3
	c.	Find the basis and dimension of the row space, column space and null space of the matrix $\begin{bmatrix} 1 & -1 & 1 & 3 & 2 \\ 2 & -1 & 1 & 5 & 1 \\ 0 & 1 & -1 & -1 & -3 \end{bmatrix}$ .	7	L3	CO3
OR					
Q.8	a.	Find the coordinates of the vector $v = (0,1,3)$ with respect to the basis $B = \{(1,1,0), (0,1,1), (1,0,1)\}$ .	6	L2	CO3
	b.	Define inner product space. Given $u = (1,2,4), v = (2, -3,5), w = (4,2, -3)$ in $R^3$ . Find (i) $\langle u, v \rangle$ (ii) $\langle v, w \rangle$ (iii) $\langle u, w \rangle$ (iv) $\ u\ $ (v) $\ v\ $	7	L2	CO3
	c.	What is a subspace? Prove that the subset $W = \{(x, y, z)/x - 3y + 4z = 0\}$ of the vector space $R^3$ is a subspace.	7	L3	CO3
Module – 5					
Q.9	a.	Show that the transformation $T: R^2 \rightarrow R^3$ defined by $T(x, y) = (x + y, x - y, y)$ is a linear transformation.	6	L2	CO3

	<b>b.</b>	Prove that the transformation $T: R^2 \rightarrow R^2$ is singular and find its kernel, if the transformation is given by $T(x, y) = (2x + 4y, x + 2y)$ .	7	L2	CO3
	<b>c.</b>	Verify Rank- Nullity theorem for the transformation $T: R^3 \rightarrow R^3$ defined by $T(x, y, z) = (x + 2y, y - z, x + 2z)$	7	L3	CO3
<b>OR</b>					
<b>Q.10</b>	<b>a.</b>	Find the matrix representing the linear transformation $T: R^3 \rightarrow R^4$ defined by $T(x, y, z) = (x + y + z, 2x + z, 2y - z, 6y)$	6	L2	CO3
	<b>b.</b>	If $T: R^3 \rightarrow R^3$ is a linear transformation defined by $T(x, y) = (x + z, x - z, y)$ Show that T is invertible and find $T^{-1}$	7	L2	CO3
	<b>c.</b>	Verify Rank- Nullity theorem for the transformation $T: R^3 \rightarrow R^2$ defined by $T(x, y, z) = (x + y, z)$	7	L3	CO3

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# CBCS SCHEME

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1BCHE102

## First Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026 Applied Chemistry for Smart Systems

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.*

*3. VTU formula Handbook is permitted.*

*4. Missing data, if any, may be suitably assumed.*

Module – 1			M	L	C
<b>Q.1</b>	<b>a.</b>	Explain p type and n type semiconductors with an example.	6	L2	CO1
	<b>b.</b>	Explain the synthesis of TiO <sub>2</sub> -RAM nano material by the sol-gel method and mention its properties and applications.	7	L2	CO1
	<b>c.</b>	Describe the construction, working principle and applications of Active-Matrix Organic Light Emitting Diodes (AMOLEDs).	7	L2	CO1
<b>OR</b>					
<b>Q.2</b>	<b>a.</b>	Explain the construction, working and advantages of pentacene semiconductor chip.	6	L2	CO1
	<b>b.</b>	What are liquid crystals (LCs)? Explain their classifications.	7	L2	CO1
	<b>c.</b>	Explain the construction and working principle of Organic Light Emitting Diodes (OLEDs) and mention its applications in electronic displays.	7	L2	CO1
<b>Module – 2</b>					
<b>Q.3</b>	<b>a.</b>	Explain the construction, working and the applications of Quantum dot sensitized solar cells (QDSSCs).	6	L2	CO2
	<b>b.</b>	What is a Polymer? Explain the synthesis, properties of Nylon 6,6 and mention its applications.	7	L2	CO2
	<b>c.</b>	A polymer sample containing 50, 100 and 150 molecules having molar mass 1000, 2000 and 3000 respectively. Calculate the number and weight average molecular weights of polymer.	7	L3	CO2
<b>OR</b>					
<b>Q.4</b>	<b>a.</b>	Describe the following structure property relationship of the polymer. a) Crystallinity    b) Strength    c) Chemical resistivity.	6	L2	CO2
	<b>b.</b>	Explain the wet chemical synthesis of Cd-Se quantum dots and mention its application.	7	L2	CO2
	<b>c.</b>	Polymers are generally known for their insulating nature. Applying the knowledge of conduction mechanism, highlight and explain the conduction mechanism in Polyaniline polymer. Mention its engineering applications.	7	L3	CO2

Module – 3					
Q.5	a.	Describe the construction and working of Lithium-ion Battery.	6	L2	CO3
	b.	Explain the production of green hydrogen using TiO <sub>2</sub> photocatalytic water splitting method.	7	L2	CO3
	c.	The emf of a cell Ag(s) /AgNO <sub>3</sub> (0.02M) // AgNO <sub>3</sub> (XM) / Ag(s) is found to be 0.084V at 298 K. Find the value of X and write the cell reactions.	7	L3	CO3
OR					
Q.6	a.	A fuel cell is considered as an efficient energy conversion device to convert fuel energy into electricity operating at wide temperature range. Apply the concept of energy conversion and outline the characteristics, construction and working of solid oxide fuel cell.	6	L3	CO3
	b.	Explain the construction and working of Sodium ion Battery and mention its applications.	7	L2	CO3
	c.	What is a battery? Outline the classification of battery with suitable examples.	7	L2	CO3
Module – 4					
Q.7	a.	Explain the mechanism of Pitting corrosion and Waterline corrosion with suitable examples.	6	L2	CO4
	b.	Explain the principle, construction and application of Electrochemical sensors in the detection of NO <sub>x</sub> and SO <sub>x</sub> .	7	L2	CO4
	c.	What is CPR? A thick sheet of area 93 inch <sup>2</sup> is exposed to air near the ocean. After 6 months it was found to experience a weight loss of 360 g due to corrosion, if the density of the steel is 7.9 g/cm <sup>3</sup> . Calculate the corrosion penetration rate in mpy and mmpy (Given K = 534 in mpy and 87.6 mm/y).	7	L3	CO4
OR					
Q.8	a.	What is corrosion? Explain electrochemical theory of corrosion by taking iron as an example.	7	L2	CO4
	b.	Explain the application of Conductometric sensors in the estimation of acid mixture.	7	L2	CO4
	c.	Define the terms a) Transducer b) Actuators c) Sensors.	6	L2	CO4
Module – 5					
Q.9	a.	Explain the role of artificial intelligence in e-waste management.	6	L2	CO4
	b.	Explain the synthesis and properties of alginate hydrogel with reference to its applications in brain-computer interfaces (BCIs).	7	L2	CO4
	c.	Explain the extraction of gold from e-waste by bioleaching method.	7	L2	CO4

OR					
Q.10	a.	Explain the effects of e-waste on the Environment and Human Health.	6	L2	CO4
	b.	Explain the green synthesis of ZnO nano particles and mention its uses in magnetic Radio Frequency Identification. (RFID).	7	L2	CO4
	c.	Explain the synthesis and properties of polylactic Acid (PLA). Mention its uses in touch screen applications.	7	L2	CO4

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# CBCS SCHEME

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1BAIA103

## First Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026 Introduction to AI and Applications

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
<b>Q.1</b>	<b>a.</b>	Explain in detail the different types of Artificial Intelligence based on functionality and capabilities.	7	L2	CO1
	<b>b.</b>	Explain different types of knowledge used in AI with suitable examples.	6	L2	CO1
	<b>c.</b>	Compare traditional programming with machine learning.	7	L2	CO1
<b>OR</b>					
<b>Q.2</b>	<b>a.</b>	What is Machine Learning? Relate AI and Machine Learning?	7	L2	CO1
	<b>b.</b>	What is AI Agent? Classify the agents in an AI system.	7	L2	CO1
	<b>c.</b>	Compare weak AI and strong AI.	6	L2	CO1
<b>Module – 2</b>					
<b>Q.3</b>	<b>a.</b>	Differentiate between Zero-shot, One-shot, and Few-shot prompting.	6	L2	CO4
	<b>b.</b>	Explain Self-Consistency Prompting and how does it improve model performance.	6	L2	CO4
	<b>c.</b>	Apply LLM-based writing prompts to produce creative content for digital marketing campaigns.	8	L3	CO4
<b>OR</b>					
<b>Q.4</b>	<b>a.</b>	Build a zero-shot prompt to classify comments as positive or negative. Explain why it qualifies as zero-shot.	6	L3	CO4
	<b>b.</b>	Explain the steps for Effective Prompt Engineering.	6	L2	CO4
	<b>c.</b>	Build a creative prompt that encourages ChatGPT to propose futuristic transportation ideas. Explain how this promotes imaginative thinking.	8	L3	CO4
<b>Module – 3</b>					
<b>Q.5</b>	<b>a.</b>	Is Labelled data supervised or unsupervised machine learning? Extend your answer explaining different types of machine learning.	6	L2	CO2
	<b>b.</b>	Outline K-Means Algorithm with merits and demerits.	8	L2	CO2
	<b>c.</b>	Summarize the features of: (i) Reinforcement Learning      (ii) Support Vector Machines (SVM)	6	L2	CO2
<b>OR</b>					

<b>Q.6</b>	<b>a.</b>	Explain the four steps to create Decision Trees with suitable example for each step.	<b>6</b>	<b>L2</b>	<b>CO2</b>
	<b>b.</b>	Define conditional probability and the Bayes rule with examples.	<b>8</b>	<b>L2</b>	<b>CO2</b>
	<b>c.</b>	How does computer vision work with deep learning? Explain the tasks involved in computer vision.	<b>6</b>	<b>L2</b>	<b>CO2</b>
<b>Module – 4</b>					
<b>Q.7</b>	<b>a.</b>	List and explain any four Trusted AI principles.	<b>8</b>	<b>L2</b>	<b>CO5</b>
	<b>b.</b>	Describe the concept of AI as a Service (AIaaS). Outline two advantages and two challenges of using AIaaS in organizations.	<b>6</b>	<b>L2</b>	<b>CO5</b>
	<b>c.</b>	Relate the role of ethics in AI.	<b>6</b>	<b>L2</b>	<b>CO5</b>
<b>OR</b>					
<b>Q.8</b>	<b>a.</b>	What is expert system? Explain three components of expert system.	<b>6</b>	<b>L2</b>	<b>CO5</b>
	<b>b.</b>	Differentiate between the following: (i) AI Programs and Robots (ii) Human-controlled and fully – autonomous bots	<b>6</b>	<b>L2</b>	<b>CO5</b>
	<b>c.</b>	What is Neuromorphic Computing? Explain its architecture, features resembling the human brain, and how it contributes toward achieving Artificial General Intelligence (AGI).	<b>8</b>	<b>L2</b>	<b>CO5</b>
<b>Module – 5</b>					
<b>Q.9</b>	<b>a.</b>	Relate the role of AI in Biology and Environmental Sciences.	<b>6</b>	<b>L2</b>	<b>CO3</b>
	<b>b.</b>	What is No-Code AI. Explain why No-Code AI Must be Used?	<b>6</b>	<b>L2</b>	<b>CO3</b>
	<b>c.</b>	Identify the role of AI in scientific experimentation by examining how it supports different disciplines and breaking down the specific experimental activities such as data collection, pattern identification, simulation, and hypothesis testing that AI enhances.	<b>8</b>	<b>L3</b>	<b>CO3</b>
<b>OR</b>					
<b>Q.10</b>	<b>a.</b>	Explain the role of AI in early disease prevention.	<b>6</b>	<b>L2</b>	<b>CO3</b>
	<b>b.</b>	What is Low Code AI. Compare Traditional tools with Low Code AI.	<b>6</b>	<b>L2</b>	<b>CO3</b>
	<b>c.</b>	Explain how AI contributes to environmental science by breaking down its role in climate modelling, air and water quality monitoring, waste management, and resource conservation. Describe the specific data, techniques, and decision-making processes involved in each area.	<b>8</b>	<b>L3</b>	<b>CO3</b>

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1BESC104D

## First Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026 Introduction to Mechanical Engineering

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.	Discuss the various roles of mechanical engineers in solving the real case problems.	10	L1	CO1
	b.	With schematic diagram explain briefly the working principle of centrifugal pump.	05	L2	CO1
	c.	State the working principle of power steering with schematic sketch.	05	L1	CO1
<b>OR</b>					
Q.2	a.	With block diagram explain the working of refrigeration system.	10	L2	CO1
	b.	With sketch state the working principle of Pelton turbine.	05	L1	CO1
	c.	State the functions of important parts of drone.	05	L2	CO1
<b>Module - 2</b>					
Q.3	a.	Using appropriate diagrams, explain how a 4-stroke diesel engine works, and represent the cycle on a P-V diagram.	10	L2	CO2
	b.	Sketch the basic layout of an electric vehicle and label its components.	06	L2	CO2
	c.	State the advantages of Electrical vehicles.	04	L1	CO2
<b>OR</b>					
Q.4	a.	What do you mean by the term Gear train? With the help of a neat sketch, explain the working of a compound gear train.	10	L2	CO2
	b.	With sketch discuss in brief about Hybrid Electrical.	10	L1	CO2
<b>Module - 3</b>					
Q.5	a.	Explain the properties and applications of ferrous metals.	08	L2	CO3
	b.	Differentiate between ferrous and non ferrous metals.	06	L4	CO3
	c.	What are composite materials? List the classification of composite materials based on matrix and reinforcement materials.	06	L1	CO3
<b>OR</b>					
Q.6	a.	State the advantages, disadvantages and applications of composite materials.	08	L2	CO3

	b.	What are smart materials? State the applications of smart materials.	06	L1	CO3
	c.	State advantages and disadvantages of shape memory alloys.	06	L1	CO3
<b>Module – 4</b>					
Q.7	a.	Describe the classification of manufacturing processes. Explain the factors that influence the selection of a suitable manufacturing process.	08	L1	CO4
	b.	State the principles of welding and brazing.	06	L1	CO4
	c.	With sketches explain turning and knurling processes of lathe.	06	L2	CO4
<b>OR</b>					
Q.8	a.	State the principle of drilling. With neat sketches explain reaming and tapping operations of drilling machine.	08	L1	CO4
	b.	With block diagram explain the basic components of CNC machine.	06	L2	CO4
	c.	Explain the principle of 3D printing. State the standard steps in 3D printing process.	06	L2	CO4
<b>Module – 5</b>					
Q.9	a.	Define automation and explain different types of automation.	08	L1	CO5
	b.	What is Mechatronics system? Mention its applications.	06	L2	CO5
	c.	State the working principle of Potentiometer as sensor and mention its applications.	06	L1	CO5
<b>OR</b>					
Q.10	a.	What is an optical encoder? Explain its working principle and industrial applications.	08	L2	CO5
	b.	Explain why it is necessary to integrate technology.	06	L2	CO5
	c.	What is Advanced Driver Assistance Systems (ADAS) and state its features.	06	L1	CO5

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1BPLC105B

## First Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026 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
<b>Q.1</b>	<b>a.</b>	Explain the salient features of Python.	6	L2	CO1
	<b>b.</b>	Describe the Collatz $3n + 1$ sequence and explain how iteration and conditional statements are used in its implementation.	8	L2	CO1
	<b>c.</b>	Write a Python program to calculate factorial of a number.	6	L3	CO1
<b>OR</b>					
<b>Q.2</b>	<b>a.</b>	Explain Syntax Error, Runtime Error, and Semantic error with an example.	6	L2	CO1
	<b>b.</b>	Explain break and continue statements with example.	8	L2	CO1
	<b>c.</b>	Write a Python program to print only even Fibonacci numbers up to n terms.	6	L3	CO1
<b>Module – 2</b>					
<b>Q.3</b>	<b>a.</b>	Explain Python string handling method with example : find ( ) , Upper ( ) , isupper ( ) , len ( ) .	8	L2	CO2
	<b>b.</b>	Tuples are immutable. Explain with an example. And also differentiate between tuple and list.	5	L2	CO2
	<b>c.</b>	Write a Python program to count occurrences of characters in a string and print the count.	7	L3	CO2
<b>OR</b>					
<b>Q.4</b>	<b>a.</b>	Explain the string operations in Python for slicing, concatenation, repetition and comparison with suitable example.	8	L2	CO2
	<b>b.</b>	What is a list? Explain append ( ) , insert ( ) , remove ( ) , pop ( ) with example.	5	L2	CO2
	<b>c.</b>	Develop a Python program to sort a given list of numbers using Bubble sort from lowest to highest order.	7	L3	CO2
<b>Module – 3</b>					
<b>Q.5</b>	<b>a.</b>	Explain dictionary methods like keys( ) , values( ) , items( ) with an example.	6	L2	CO2
	<b>b.</b>	What is Broadcasting in NumPy. Develop a program to illustrate Broadcasting array elements.	6	L3	CO3

	<b>c.</b>	Develop a Python program to count the number of lines and words in the file.	<b>8</b>	<b>L3</b>	<b>C04</b>
<b>OR</b>					
<b>Q.6</b>	<b>a.</b>	Explain the concept of aliasing and copying in dictionary with an example.	<b>6</b>	<b>L2</b>	<b>C02</b>
	<b>b.</b>	What is Masking in NumPy. Develop a program to illustrate masking to filter array elements.	<b>6</b>	<b>L3</b>	<b>C03</b>
	<b>c.</b>	Develop a Python program to sort the contents of a text file in reverse order and write the sorted contents in to a separate file.	<b>8</b>	<b>L3</b>	<b>C04</b>
<b>Module – 4</b>					
<b>Q.7</b>	<b>a.</b>	Discuss the various methods of importing modules in python program.	<b>6</b>	<b>L2</b>	<b>C03</b>
	<b>b.</b>	Define class and object. Explain with syntax and an example how to define class in Python. How to initiate a class and how the class members are accessed.	<b>8</b>	<b>L2</b>	<b>C05</b>
	<b>c.</b>	Develop a Python program to illustrate how variable lookup follows LEGB (Local, Enclosing, Global, Built-in) rule.	<b>6</b>	<b>L3</b>	<b>C03</b>
<b>OR</b>					
<b>Q.8</b>	<b>a.</b>	Explain how to create user-defined modules in Python with an example. Also discuss the uses of user-defined modules.	<b>6</b>	<b>L2</b>	<b>C03</b>
	<b>b.</b>	Explain <code>__init__()</code> and <code>__str__()</code> methods with an example.	<b>8</b>	<b>L2</b>	<b>C05</b>
	<b>c.</b>	Develop a program that simulates a simple stopwatch that records random time intervals and calculates the average elapsed time.	<b>6</b>	<b>L3</b>	<b>C03</b>
<b>Module – 5</b>					
<b>Q.9</b>	<b>a.</b>	Briefly explain Assertion and raising an exception.	<b>4</b>	<b>L2</b>	<b>C05</b>
	<b>b.</b>	What is polymorphism? Develop a program to illustrate polymorphism by defining a common interface method in two different classes.	<b>8</b>	<b>L3</b>	<b>C05</b>
	<b>c.</b>	Create a Python class Point with attributes x and y. Demonstrate sameness using 'is' operator, deep equality using <code>==</code> , and show the effect of mutability when modifying one reference.	<b>8</b>	<b>L3</b>	<b>C05</b>
<b>OR</b>					
<b>Q.10</b>	<b>a.</b>	Explain the term objects are mutable with an example.	<b>4</b>	<b>L2</b>	<b>C05</b>
	<b>b.</b>	What is operator overloading? Define a Class Complex. Overload the + operator to add two complex numbers. Write a Python program to read N ( $N \geq 2$ ) complex numbers and find their cumulative sum using operator overloading.	<b>8</b>	<b>L3</b>	<b>C05</b>
	<b>c.</b>	Explain the need for exception handling in Python. Develop a program to illustrate: try, except, else, finally blocks and also show how to raise an exception.	<b>8</b>	<b>L3</b>	<b>C05</b>

# CBCS SCHEME

1BENG106

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Question Paper Version : A

First Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026

## Communication Skills

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 does “Communicative English” refer to?
    - a) Fluent reading skills
    - b) Ability to write essays
    - c) Effective use of English for communication
    - d) Learning English vocabulary
  2. Why is English important for global interaction?
    - a) It's a universal language for business
    - b) It's a native language in most countries
    - c) It's the easiest language to learn
    - d) It has a simple grammar
  3. Non-verbal communication does not include
    - a) Gestures
    - b) Posture
    - c) Silence
    - d) Words
  4. What does the term ‘communication’ refer to?
    - a) Conveying information only
    - b) Conveying feelings and emotions
    - c) Conveying information, ideas, thoughts, and more
    - d) Nonverbal communication only
  5. An employee sends a suggestion about improving a process directly to the CEO. This is an example of :
    - a) Downward communication
    - b) Horizontal communication
    - c) Diagonal communication
    - d) Upward communication
  6. Which of the following is a psychological barrier to effective communication?
    - a) Background noise
    - b) Lack of attention
    - c) Limited vocabulary
    - d) Technical jargon

7. She is still a \_\_\_\_\_.
- a) bachelor                      b) spinster                      c) female bachelor                      d) bacheloress
8. Chronemics refers to :
- a) Use of physical touch                      b) Study of time in communication  
c) Facial expressions                      d) Writing style and structure
9. What is one of the most common mistakes among new English learners related to pronunciation?
- a) Vocabulary usage                      b) Punctuation errors  
c) Misuse of prepositions                      d) Mispronunciation
10. What is the syllabic structure of the word “dictionary”?
- a) CVC-V-CVC                      b) VC-CVC                      c) V-CV-CV-CV                      d) CVC-CVC-VCV
11. Which of these qualities is important in a group discussion?
- a) Hostility                      b) Aggressiveness  
c) Emotional stability                      d) Ignorance
12. Which of the following is most essential in delivering an effective PEP Talk?
- a) Use of complex vocabulary                      b) Clear and inspiring message  
c) Lengthy explanations                      d) Reading directly from notes
13. Which of the following words belongs to technical vocabulary in engineering?
- a) Algorithm                      b) Happiness                      c) Beautiful                      d) Quickly
14. In a group discussion, we should be \_\_\_\_\_
- a) Assertive                      b) Dominating                      c) Subjective                      d) Ignorant
15. A presentation is a form of oral communication in which a person shares factual information with a \_\_\_\_\_ audience.
- a) Mixed                      b) Large                      c) Specific                      d) Small
16. When using scanning to read an achiever’s interview, the reader should :
- a) Look for the general mood of the passage  
b) Read slowly and carefully for each sentence  
c) Search for specific details such as dates, achievements or quotes  
d) Summarize the entire text in their own words
17. To select the content of presentation, you should know :
- a) The available material                      b) Your time limit  
c) The audience’s needs                      d) Your purpose
18. Identify the sentence pattern: “She reads books.”
- a) S + V                      b) S + V + O                      c) S + V + IO + DO                      d) S + V + C
19. What is the correct sequence when writing a short biography based on reflections?
- a) Achievements → Death → Early life → Advice  
b) Earlylife → Education → Career / achievements → Reflections/advice  
c) Advice → Earlylife → Achievements → Education  
d) Career → Earlylife → Reflections → Education



32. What is a major challenge for students in rural areas when accessing digital resources?
- Too many books in the library
  - Poor internet connectivity and lack of devices
  - High cost of printing physical copies
  - Difficulty using shelves
33. Which of the following is a popular online grammar-checking tool that also offers plagiarism detection?
- Canva
  - Grammarly
  - Photoshop
  - Trello
34. Posting confidential company data on social media without permission violates which principle of netiquette?
- Respect for privacy
  - Respect for diversity
  - Avoiding spam
  - Using proper grammar
35. Which of the following is NOT an advantage of online communication?
- Connects people across geographies
  - Cost savings on travel and logistics
  - Guarantees no misinterpretation of tone
  - Supports multimedia and collaboration
36. Why is using ALLCAPS in online communication discouraged?
- It uses too much data
  - It is difficult to read
  - It is considered shouting or aggressive
  - It is informal
37. Which of these tools supports both synchronous and asynchronous communication?
- Whats App
  - Google Docs
  - Email
  - Forum
38. A company wants to create a permanent discussion space where employees can post suggestions anytime and HR can respond later. Which tool is MOST appropriate?
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  - Email thread
  - Discussion forum
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  - Email
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41. Telephone interviews are often used as :
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  - A screening step before face – to – face interviews
  - A group discussion replacement
42. In a formal job interview, which of the following greetings is most appropriate?
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  - Good morning, Sir/Madam
  - Hi buddy!
  - Yo, how's it going?
43. For a fresher, the ideal length of a resume is :
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  - 1 page
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Question Paper Version : B

**First Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026**  
**Communication Skills**

Time: 1 hr.

Max. Marks: 50

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c) I enquired him who was he                         d) I enquired of him who I was
  2. What is a major challenge for students in rural areas when accessing digital resources?  
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  4. Posting confidential company data on social media without permission violates which principle of netiquette?  
a) Respect for privacy                                      b) Respect for diversity  
c) Avoiding spam    d) Using proper grammar
  5. Which of the following is NOT an advantage of online communication?  
a) Connects people across geographies              b) Cost savings on travel and logistics  
c) Guarantees no misinterpretation of tone        d) Supports multimedia and collaboration
  6. Why is using ALLCAPS in online communication discouraged?  
a) It uses too much data                                      b) It is difficult to read  
c) It is considered shouting or aggressive         d) It is informal

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18. Chronemics refers to :  
a) Use of physical touch      b) Study of time in communication  
c) Facial expressions      d) Writing style and structure



30. A good mock interview should include :
- Realistic interview questions
  - Feedback on verbal and non-verbal communication
  - Time management practice
  - All of these
31. When responding to an email, what is considered best practice?
- Reply as soon as possible, preferably 24 hours
  - Wait at least a week before replying
  - Only respond if you agree with the content
  - Forward the email to others before replying
32. Which among these should not be present in a formal letter?
- The name of the firm
  - The date
  - Business jargon
  - Courteous leave - taking
33. What is the main purpose of a concluding sentence?
- Introduce a new idea
  - Summarize the paragraph and provide closure
  - Confuse the reader
  - Make the paragraph
34. Which of the following is not a type of paragraph?
- Descriptive
  - Bibliographic
  - Narrative
  - Argumentative
35. Which tool can assist in proof reading but should not be fully relied upon?
- Dictionary
  - Spell check / Grammar check software
  - Thesaurus
  - Notebook
36. Which of the following is a non-Wh question?
- Where are you going?
  - Why is she late?
  - Do you like coffee?
  - What is your name?
37. Identify the grammatical error in the sentence :  
"He don't know the answer"
- Spelling error
  - Subject – verb agreement error
  - Punctuation error
  - Word choice error
38. I should be \_\_\_ the paper then
- reading
  - read
  - readed
  - red
39. The correct form of reported speech of-She said him, "What did you say?"
- She asked him what he said
  - She asked him what he had said
  - She asked him what he say
  - She asked him what did you say
40. Identify the correct question tag:  
"You are a student, \_\_\_\_\_?"
- Are you
  - aren't you
  - is you
  - isn't you



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# CBCS SCHEME

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Question Paper Version : C

First Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026

## Communication Skills

Time: 1 hr.

Max. Marks: 50

### INSTRUCTIONS TO THE CANDIDATES

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19. Which of the following is NOT a benefit of mock interviews?
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  - Learning how to answer common interview questions
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20. A good mock interview should include :
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 a) S + V    b) S + V + O    c) S + V + IO + DO    d) S + V + C
39. What is the correct sequence when writing a short biography based on reflections?  
 a) Achievements → Death → Early life → Advice  
 b) Earlylife → Education → Career / achievements → Reflections/advice  
 c) Advice → Earlylife → Achievements → Education  
 d) Career → Earlylife → Reflections → Education
40. Choose the sentence that follows the pattern S+V+C (Subject + Verb + Complement) :  
 a) He wrote a letter    b) She is a doctor  
 c) The boy kicked the ball    d) They offered him a job

41. What does “Communicative English” refer to?  
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# CBCS SCHEME

1BENG106

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Question Paper Version : D

First Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026

## Communication Skills

Time: 1 hr.

Max. Marks: 50

### INSTRUCTIONS TO THE CANDIDATES

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1. Telephone interviews are often used as :
    - a) The final stage of the hiring process
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  2. In a formal job interview, which of the following greetings is most appropriate?
    - a) Hey, what's up?
    - b) Good morning, Sir/Madam
    - c) Hi buddy!
    - d) Yo, how's it going?
  3. For a fresher, the ideal length of a resume is :
    - a) 3-4 pages
    - b) 2-3 pages
    - c) 1 page
    - d) 5 pages
  4. Which of these is a common mistake in resume?
    - a) Using action verbs
    - b) Tailoring a resume for each job
    - c) Including irrelevant details
    - d) Highlighting measurable achievements
  5. Primary requirements for an interview are
    - a) A good cover letter and updated Curriculum Vitae
    - b) Wearing formal attire
    - c) Knowledge about the company
    - d) All of these
  6. Fill in the blank with the correct modal auxiliary verb : "You ----wear a helmet while riding a bike."
    - a) may
    - b) must
    - c) could
    - d) might

7. Which modal auxiliary verb best fits in the given sentence? “Employees -- submit their Reports before Friday.”  
a) should                      b) may                      c) might                      d) can
8. Which of the following best defines plagiarism?  
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a) Hostility      b) Aggressiveness  
c) Emotional stability      d) Ignorance
22. Which of the following is most essential in delivering an effective PEP Talk?  
a) Use of complex vocabulary      b) Clear and inspiring message  
c) Lengthy explanations      d) Reading directly from notes
23. Which of the following words belongs to technical vocabulary in engineering?  
a) Algorithm      b) Happiness      c) Beautiful      d) Quickly
24. In a group discussion, we should be \_\_\_\_\_.  
a) Assertive      b) Dominating      c) Subjective      d) Ignorant
25. A presentation is a form of oral communication in which a person shares factual information with a \_\_\_\_\_ audience.  
a) Mixed      b) Large      c) Specific      d) Small
26. When using scanning to read an achiever’s interview, the reader should :  
a) Look for the general mood of the passage  
b) Read slowly and carefully for each sentence  
c) Search for specific details such as dates, achievements or quotes  
d) Summarize the entire text in their own words
27. To select the content of presentation, you should know :  
a) The available material      b) Your time limit  
c) The audience’s needs      d) Your purpose
28. Identify the sentence pattern: “She reads books.”  
a) S + V      b) S + V + O      c) S + V + IO + DO      d) S + V + C
29. What is the correct sequence when writing a short biography based on reflections?  
a) Achievements → Death → Early life → Advice  
b) Earlylife → Education → Career / achievements → Reflections/advice  
c) Advice → Earlylife → Achievements → Education  
d) Career → Earlylife → Reflections → Education



