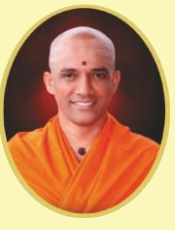


|| Jai Sri Gurudev ||

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

BGS College Of Engineering and Technology



VTU - Dec.2024 / Jan. 2025 - I Sem Question Papers

2022 - Scheme

Physics Cycle





Physics Cycle 2022 - Scheme

First Semester Question Papers Dec.2024/Jan - 2025

<u>Sl.No</u>	<u>Name of the Subject</u>	<u>Subject Code</u>
1	Mathematics – I for CSE Stream	BMATS101
2	Applied Physics for CSE Stream	BPHYS102
3	Principles of Programming using C	BPOPS103
4	Introduction to Mechanical Engineering	BESCK104D
5	Introduction to Cyber Security	BETCK105I
6	Introduction to Internet of Things	BETCK105H
7	Communicative English	BENGK106
8	Balake Kannada	BKBKK107
9	Samskruthika Kannada	BKSCK107
10	Innovation and Design Thinking	BIDTK158

CBCS SCHEME

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BMATS101

First Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Mathematics – I 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.	Find the angle between the curves, $r = \frac{a}{1 + \cos\theta}$ and $r = \frac{b}{1 - \cos\theta}$.	6	L2	CO1
	b.	Find the pedal equations of the curve $r^m = a^m \cos(m\theta)$.	7	L2	CO1
	c.	Determine the radius of curvature of the curve $r^2 \sec(2\theta) = a^2$.	7	L2	CO1
OR					
Q.2	a.	With usual notation prove that $\tan\phi = r \frac{d\theta}{dr}$.	8	L2	CO1
	b.	Show that tangents to the cardioid $r = a(1 + \cos\theta)$ at the points $\theta = \frac{\pi}{3}$ and $\theta = \frac{2\pi}{3}$ are respectively parallel and perpendicular to the initial line.	7	L2	CO1
	c.	Using modern mathematical tool write a programme/code to plot $r = 2 \cos 2\theta $.	5	L3	CO5
Module – 2					
Q.3	a.	Expand $\sqrt{1 + \sin 2x}$ as Maclaurin's series up to fourth degree terms.	6	L2	CO1
	b.	If $u = f(y - z, z - x, x - y)$, prove that $\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} = 0$.	7	L2	CO1
	c.	Compute $J = \frac{\partial(x, y, z)}{\partial(\rho, \phi, z)}$ for $x = \rho \cos\phi$, $y = \rho \sin\phi$ and $z = z$	7	L2	CO1
OR					
Q.4	a.	If $u = e^{(ax+by)} f(ax - by)$, prove that $b \frac{\partial u}{\partial x} + a \frac{\partial u}{\partial y} = 2abu$.	8	L2	CO1
	b.	Prove that $x^2 \frac{\partial u}{\partial x} + y^2 \frac{\partial u}{\partial y} + z^2 \frac{\partial u}{\partial z} = 0$ for $u = f\left(\frac{y-x}{xy}, \frac{z-x}{xz}\right)$	7	L2	CO1
	c.	Using modern mathematical tool write a programe/code to show that $u_{xx} + u_{yy} = 0$, given that $u = e^x(x \cos y - y \sin y)$.	5	L2	CO5
Module – 3					
Q.5	a.	Solve $\left[y \left(1 + \frac{1}{x} \right) + \cos y \right] dx + [x + \log x - x \sin y] dy = 0$	6	L2	CO2
	b.	Show that the curve $y^2 = 4a(x + a)$ is self-orthogonal.	7	L3	CO2
	c.	A 12-volts battery connected to a series circuit in which the inductance is $\frac{1}{2}$ henry and resistance is 10 ohms. Find the current 'i' if the initial current is zero.	7	L3	CO2

OR					
Q.6	a.	Solve $x \frac{dy}{dx} + y = x^3 y^6$.	6	L2	CO2
	b.	Find orthogonal trajectories of the family $r^n \cos n\theta = a^n$.	7	L3	CO2
	c.	Find the general solutions of the equations $(px - y)(py + x) = a^2 P$ by reducing into Clairaut's form by taking $u = x^2, v = y^2$.	7	L2	CO2
Module – 4					
Q.7	a.	Find remainder when $(349 \times 74 \times 36)$ is divided by 3.	6	L1	CO3
	b.	Solve linear Diophantine equations $13x + 17y = 5$.	7	L2	CO3
	c.	Solve the system of linear congruence $x \equiv 2(\text{mod}3), x \equiv 3(\text{mod}5)$ and $x \equiv 2(\text{mod}7)$, using remainder theorem.	7	L2	CO3
OR					
Q.8	a.	Find the last digit in 7^{126} .	6	L2	CO3
	b.	Solve $2x + 6y \equiv 1(\text{mod}7)$ $4x + 3y \equiv 2(\text{mod}7)$	7	L2	CO3
	c.	Find the remainder when 7^{121} is divisible by 13.	7	L2	CO3
Module – 5					
Q.9	a.	Solve the system of equation by using Gauss-Jordan method. $x + y + z = 9, 2x + y - z = 0, 2x + 5y + 7z = 52$.	6	L2	CO4
	b.	For what values λ and μ the system of equations, $x + y + z = 6,$ $x + 2y + 3z = 10, x + 2y + \lambda z = \mu$ has (i) no solution (ii) a unique solution and (iii) Many solutions.	7	L2	CO4
	c.	Using power method, find the largest eigen value and corresponding vector of the matrix, $A = \begin{bmatrix} 6 & -2 & 2 \\ -2 & 3 & -1 \\ 2 & -1 & 3 \end{bmatrix}$.	7	L2	CO4
OR					
Q.10	a.	Determine the rank of the matrix $A = \begin{bmatrix} 91 & 92 & 93 & 94 & 95 \\ 92 & 93 & 94 & 95 & 96 \\ 93 & 94 & 95 & 96 & 97 \\ 94 & 95 & 96 & 97 & 98 \\ 95 & 96 & 97 & 98 & 99 \end{bmatrix}$.	8	L1	CO4
	b.	Using the Gauss-Seidel iteration method, solve the equation $27x + 6y - z = 85, 6x + 15y + 2z = 72, x + y + 54z = 110$. Carry out four iterations.	7	L2	CO4
	c.	Using modern mathematical tool, write a program/code to find the largest eigen value of $A = \begin{bmatrix} 1 & 1 & 3 \\ 1 & 5 & 1 \\ 3 & 1 & 1 \end{bmatrix}$ by power method.	5	L3	CO5

CBCS SCHEME

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BPHYS102/202

**First / Second Semester B.E./B.Tech. Degree Examination,
Dec.2024/Jan.2025**

Applied Physics for 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
Q.1	a.	Obtain the expression for energy density equation using Einstein's coefficients at thermal equilibrium condition.	9	L2	CO1
	b.	Discuss the types of optical fibers based on modes of Propagation and Refractive Index profile.	6	L2	CO1
	c.	Given the numerical aperture 0.30 and RI of core 1.49. Calculate the critical angle for the core – cladding interface.	5	L3	CO1
OR					
Q.2	a.	Illustrate the construction and working of semiconductor laser with a neat sketch with energy level diagram.	8	L2	CO1
	b.	Define Acceptance angle and Numerical aperture and hence derive an expression for Numerical aperture in terms of Refractive Indices of core, cladding and surrounding.	7	L2	CO1
	c.	In an optical fiber experiment the LASER light propagating through optical fibre cable of 1.5m, made a spot diameter of 8mm on the screen. The distance between the end of the optical fibre cable and the screen is 0.031m. Calculate angle of contact and N.A of given optical fibre.	5	L3	CO5
Module – 2					
Q.3	a.	Derive an expression for de Broglie wavelength by analogy and hence discuss the significance of de Broglie waves.	6	L2	CO2
	b.	Set – up Schrodinger time independent wave equation in one dimension.	9	L2	CO2
	c.	Calculate the energy of the first three energy states for an electron in one dimensional potential well of width 0.1nm.	5	L3	CO2
OR					
Q.4	a.	State and explain Heisenberg's uncertainty principle and show that electron does not exist inside the nucleus using Heisenberg's uncertainty principle.	7	L2	CO2
	b.	Explain Eigen values and Eigen functions and hence derive the Eigen function of a particle inside infinite potential well of width 'a' using the method of Normalization.	8	L2	CO2

	c.	The kinetic energy of an electron is equal to the energy of a photon with a wave length of 560 nm. Calculate the de Broglie wave length of the electron.	5	L3	CO2
Module – 3					
Q.5	a.	State the Pauli matrices and apply Pauli matrices on the states $ 0\rangle$ and $ 1\rangle$.	9	L2	CO2
	b.	Discuss the CNOT gate and its operation on four different input states.	6	L2	CO2
	c.	Given $ \Psi\rangle = \begin{pmatrix} \alpha_1 \\ \alpha_2 \end{pmatrix}$ and $ \phi\rangle = \begin{pmatrix} \beta_1 \\ \beta_2 \end{pmatrix}$, Prove that $\langle \Psi \phi \rangle = \langle \phi \Psi \rangle^*$.	5	L3	CO2
OR					
Q.6	a.	Explain the representation of qubit using Bloch sphere.	7	L2	CO3
	b.	Describe the working of controlled – Z gate mentioning its matrix representation and truth table.	8	L3	CO3
	c.	A linear operator ‘X’ operates such that $X 0\rangle = 1\rangle$ and $X 1\rangle = 0\rangle$. Find the matrix representation of ‘X’.	5	L3	CO3
Module – 4					
Q.7	a.	Enumerate the assumptions of Quantum free electron theory of metals and mention the failures and classical free electron theory.	7	L2	CO3
	b.	Describe Meissner effect and hence classify superconductors into Soft and Hard super conductors using M – H graphs.	8	L2	CO3
	c.	Calculate the probability of occupation of an energy level 0.2eV above Fermi level at temperature 27°C.	5	L3	CO3
OR					
Q.8	a.	Define Fermi factor and discuss the variation of Fermi factor with temperature and energy.	7	L2	CO3
	b.	Explain the phenomenon of superconductivity and discuss qualitatively the BCS theory of super conductivity for negligible resistance of metal at temperature close to absolute zero.	8	L2	CO3
	c.	A superconductivity Tin has a critical temperature of 3.7K at zero magnetic field and a critical field of 0.0306 Tesla at 0°K. Find the critical field at 2K.	5	L3	CO3
Module – 5					
Q.9	a.	Elucidate the importance of size and scale , weight and strength in animations.	8	L2	CO4
	b.	Discuss the salient features of normal distribution using bell curves.	7	L2	CO4

	c.	A slowing object in an animations has a first frame distance 0.5m and the first slow in frame 0.35m. Calculate the base distance and the number of frames in sequence.	5	L3	CO4
OR					
Q.10	a.	Describe Jumping and parts of Jump.	8	L2	CO4
	b.	Discuss modeling the probability for proton decay.	7	L2	CO4
	c.	In a diffraction grating experiment the laser light undergoes second order diffraction for diffraction angle 1.48° . The grating constant $d = 5.05 \times 10^{-5}\text{m}$ and the distance between the grating and screen is 0.60m. Find the wavelength of LASER light.	5	L3	CO5

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BPOPS103/203

First/Second Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Principles of Programming using C

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.	List and explain any 5 characteristics of a computer.	10	L2	CO1
	b.	Draw the block diagram of a computer, explain all of its blocks such as input, output storage and CPU.	10	L2	CO1
OR					
Q.2	a.	Explain the following programming paradigms. i) Procedural programming ii) Object-oriented programming	10	L2	CO1
	b.	Explain the structure of a C program with an example.	10	L2	CO1
Module – 2					
Q.3	a.	Explain Arithmetic and Relational operators of C with an example.	10	L2	CO2
	b.	Develop a complete C program to find the real roots of a quadratic equation by accepting the coefficients.	10	L3	CO2
OR					
Q.4	a.	Explain logical and assignment operators of C with an example.	10	L2	CO2
	b.	Write a C program to find the factorial of a given integer n. Explain the computation process.	10	L3	CO2
Module – 3					
Q.5	a.	Write a C program to find the sum and average of n integers.	10	L3	CO3
	b.	Explain the concept of function declaration and function definition with an example.	10	L2	CO5
OR					
Q.6	a.	Write a C program to add two m×n matrices.	10	L3	CO3
	b.	Explain the following with an example. i) Passing the entire array ii) Passing the individual elements of an ID array.	10	L2	CO5
Module – 4					
Q.7	a.	Write a C program to find the length of a given string without using inbuilt function.	10	L2	CO3
	b.	What is a pointer? Show the use of two pointer operators & and *.	10	L2	CO3

OR					
Q.8	a.	Write a C program to compare two given string S1 and S2 without using inbuilt function.	10	L3	CO3
	b.	How do you declare and initialize a pointer in C? Show with an example.	10	L2	CO3
Module – 5					
Q.9	a.	What is recursion? Give one example.	10	L2	CO5
	b.	Differentiate between arrays and structures in C.	10	L3	CO4
OR					
Q.10	a.	Explain the process of opening and closing a file in C.	10	L2	CO5
	b.	Differentiate between structure and unions in C with example programs.	10	L3	CO4

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BESCK104D

First Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 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.	Explain the role of Mechanical Engineering in Industries and society.	10	L2	CO1
	b.	Explain briefly the emerging trends of Mechanical Engineering in manufacturing and Energy sector.	10	L2	CO1
OR					
Q.2	a.	With sketch, explain the working principal of Thermal Power Plant.	10	L2	CO1
	b.	Explain the utilization of solar energy using Flat plate collector with a schematic diagram.	10	L2	CO1
Module – 2					
Q.3	a.	With line diagram, explain the working principle of Lathe machine.	6	L2	CO2
	b.	With neat sketches, illustrate i) Boring operation and ii) Reaming operation of drilling machine.	8	L3	CO2
	c.	Differentiate between Up milling and Down milling.	6	L2	CO2
OR					
Q.4	a.	With sketch, explain the basic components of CNC machine.	10	L2	CO2
	b.	State the advantages and applications of CNC machine.	5	L1	CO2
	c.	List and explain in brief the various steps involved in Additive manufacturing.	5	L1	CO2
Module – 3					
Q.5	a.	Analyze the working of four stroke petrol engine with sketches. Plot the PV diagram.	10	L4	CO3
	b.	List any five significant difference between petrol and diesel engine.	5	L1	CO3
	c.	State the various applications of IC engines.	5	L1	CO3
OR					
Q.6	a.	Describe Electrical Vehicles (EVs). Explain the components and working of Electrical vehicles.	10	L2	CO3

	b.	List the advantages and disadvantages of Electrical and Hybrid Electrical Vehicles.	10	L1	CO3
Module – 4					
Q.7	a.	State the classification of Metals.	5	L1	CO4
	b.	Discuss the compositions , properties and applications of Ferrous and Non – Ferrous metals.	10	L2	CO4
	c.	What are Shape Memory Alloys? Mention the applications of Shape Memory alloys.	5	L2	CO4
OR					
Q.8	a.	What is Welding? With sketch, explain the process of Arc welding.	10	L2	CO4
	b.	With figures, explain the 3 – types of flames in Oxy – Acetylene gas welding.	6	L1	CO4
	c.	Discuss the application of brazing.	4	L2	CO4
Module – 5					
Q.9	a.	Define Automation. Explain 3 – types of automation with example.	10	L2	CO5
	b.	With sketches, explain Cartesian and Polar robotic configurations.	6	L2	CO5
	c.	Differentiate between Open loop and Closed loop control system.	4	L2	CO5
OR					
Q.10	a.	Define Internet of Things (IoT). Briefly explain the characteristics of IoT.	10	L2	CO5
	b.	Explain physical design and protocols of IoT.	10	L2	CO5

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BETCK105I

First Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Introduction to Cyber Security

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.	Define Cyber Crime. Discuss about cyberpunk and cyberterrorism.	8	L2	CO2
	b.	List the various cybercrime against property and against organization.	6	L2	CO3
	c.	What is Spam? Interpret the difficulties involved to control spamming.	6	L3	CO3
OR					
Q.2	a.	Who are cyber criminals? Discuss three groups of cyber criminals.	8	L2	CO1
	b.	Discuss about cyber defamation in detail.	6	L2	CO2
	c.	Explain credit card frauds and pornographic offenses in detail.	6	L2	CO3
Module – 2					
Q.3	a.	What is Social Engineering? Discuss human based Social Engineering with a suitable example.	8	L3	CO2
	b.	Explain the different phases involved in planning cyber crime.	6	L2	CO3
	c.	Explain any six tips for safety and security while using computer in a cybercafé.	6	L2	CO3
OR					
Q.4	a.	Define Cyber Stalking. Discuss the difference between types of stalkers.	6	L2	CO2
	b.	What is an attack vector? Describe various attack vectors in detail.	6	L2	CO3
	c.	Define Botnet. With a neat diagram, explain how botnets create business.	8	L2	CO3
Module – 3					
Q.5	a.	What are software key loggers and Anti Key loggers? List the advantages of using anti key loggers.	6	L1	CO2
	b.	What is Proxy Server? How does proxy server is operated? Explain it's significance.	8	L3	CO4
	c.	What is Malware? Discuss how Malwares are classified.	6	L2	CO3

OR					
Q.6	a.	Discuss various types of viruses categorized based on attacks on various elements of the system.	6	L3	CO2
	b.	Differentiate between weak and strong password.	6	L3	CO3
	c.	Discuss 4 types of DOS attacks.	8	L2	CO3
Module – 4					
Q.7	a.	Explain the different methods used by the Phisher to reveal personal information on internet.	10	L2	CO2
	b.	Discuss various types of phishing scams.	10	L2	CO3
OR					
Q.8	a.	How does phishers use various techniques to launch phishing attacks?	6	L3	CO2
	b.	Discuss any 5 different types of identity theft technique.	10	L2	CO3
	c.	Explain the myths and facts about identity theft.	4	L2	CO4
Module – 5					
Q.9	a.	Explain the guidelines to be followed during the digital evidence collection phase.	8	L2	CO2
	b.	Discuss how fake email is detected using forensics analysis.	6	L3	CO3
	c.	What is chain of custody? Explain with an example.	6	L2	CO3
OR					
Q.10	a.	With a neat diagram, explain digital forensics life cycle model.	8	L2	CO3
	b.	Describe the need for concept of computer forensics.	6	L2	CO3
	c.	Explain network forensics in detail.	6	L2	CO2

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BETCK105H

First Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Introduction to Internet of Things

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 network communication between two hosts following the OSI model.	8	L2	CO1
	b.	Explain the IoT planes, various enablers of IoT, and the complex interdependencies among them with a neat diagram.	6	L2	CO1
	c.	Briefly explain various network topologies with suitable diagrams.	6	L2	CO1
OR					
Q.2	a.	With a neat diagram, explain internet protocol suite.	8	L2	CO1
	b.	Explain various networking components of IoT.	6	L2	CO1
	c.	What is IoT? Write the characteristics of IoT system.	6	L2	CO1
Module – 2					
Q.3	a.	With a neat diagram, explain the functional blocks of a typical sensor node in IoT.	10	L2	CO2
	b.	Outline basic differences between transducer, sensor and an actuator.	10	L4	CO2
OR					
Q.4	a.	With a neat diagram, explain working mechanism of actuator.	10	L2	CO2
	b.	Compare mechanical, soft and shape memory based actuators.	10	L4	CO2
Module – 3					
Q.5	a.	With a neat diagram, explain two types of data formats and processing importance in IoT.	10	L2	CO3
	b.	Explain IoT device selection considerations.	10	L2	CO3
OR					
Q.6	a.	Discuss with a neat diagram, event detection using offsite remote and collaborative processing topology.	10	L2	CO3
	b.	Explain different data offloading strategies with locations and decision making.	10	L2	CO3
Module – 4					
Q.7	a.	What is Service Level Agreement (SLA)? Explain its importance and merits used while defining SLA.	10	L2	CO4
	b.	With neat diagram, explain cloud models and features of commercial cloud Amazon Web Services (AWS).	10	L2	CO4
OR					
Q.8	a.	What is virtualization? Explain its advantages from end-user and service provider point of view.	10	L2	CO4
	b.	With a diagram, briefly explain the architecture of leaf Area Index system.	10	L2	CO4
Module – 5					
Q.9	a.	With a neat diagram, explain categories of machine learning and its advantages.	10	L2	CO5
	b.	With the help of a block diagram, explain the components of healthcare IoT.	10	L2	CO5
OR					
Q.10	a.	Discuss the advantages and risks associated with healthcare IoT.	10	L2	CO5
	b.	Explain fog framework of intelligent public safety in vehicular environment FISVER with block diagram.	10	L2	CO5

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Question Paper Version : C

First/Second Semester B.E./B.Tech/B.Design Degree Examination,
Dec.2024/Jan.2025

Communicative English

Time: 1 hr.]

[Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES

- Answer all the fifty questions, each question carries one mark.
 - Use only **Black ball point pen** for writing / darkening the circles.
 - For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.
 - Darkening two circles for the same question makes the answer invalid.
 - Damaging/overwriting, using whiteners on the OMR sheets are strictly prohibited.
-
- Which of the following sentence is correctly punctuated?
 - I went to the store, and bought apples, bananas, and oranges
 - I went to the store and bought apples, bananas and oranges
 - I went to the store; and bought apples, bananas, and oranges
 - I went to the store and bought apples; bananas, and oranges
 - Which article is used before a consonant sound?
 - A
 - An
 - The
 - None of these
 - In the sentence "I need _____ pen to write", should the blank be filled with an article?
 - A
 - An
 - The
 - None of these
 - Which of the following is a part of speech used to express strong emotions?
 - Adverb
 - Pronoun
 - Interjection
 - Conjunction
 - "The cat is _____ the table," which preposition should fill in the blank?
 - At
 - In
 - On
 - With
 - Which of the following is a correct use of a preposition?
 - "I am in the home"
 - "She walked at the park"
 - "He sat on the chair"
 - None of these
 - Which work contains a prefix?
 - Happy
 - Cooked
 - Revisit
 - Quickly
- Ver - C - 1 of 5
-
- Which sentence uses correct capitalization?
 - The chief executive officer was interviewed for the magazine
 - The Chief Executive Officer was interviewed for the magazine
 - The chief executive officer was interviewed for the Magazine
 - The Chief Executive Officer was interviewed for the Magazine.
 - What is the term for the consonant sound produced by a complete closure in the vocal tract followed by a sudden release of air?
 - Fricative
 - Approximant
 - Plosive
 - Nasal
 - Which of the following is a part of speech that describes a person, place, thing or idea?
 - Verb
 - Adjective
 - Noun
 - Conjunction
 - Which of the following is a correct question tag for the statement : "It's raining outside"?
 - It's raining outside, does it?
 - It's raining outside, isn't it?
 - It's raining outside, can it?
 - It's raining outside, won't it?
 - In the sentence "She will go to the market tomorrow," which tense is used?
 - Present tense
 - Past tense
 - Future tense
 - Present perfect tense
 - Which of the following sentence uses the present perfect tense correctly?
 - He is going to the gym tomorrow
 - She has finished her homework
 - They will visit their grandparents last weekend
 - We were playing football yesterday
 - In the sentence "They had been waiting for hours," which tense is used?
 - Present tense
 - Past tense
 - Future tense
 - Past perfect continuous tense
 - In the sentence "She is taller than him," what part of speech is "than"?
 - Preposition
 - Conjunction
 - Adjective
 - Pronoun
 - What is the superlative form of the adjective "good"?
 - Better
 - Best
 - Goodest
 - Gooder
 - Which of the following sentence is grammatically correct?
 - He don't like coffee
 - She hasn't went to the store yet
 - They are swimming in the pool
 - We was going to the movies.
 - Which sentence demonstrate correct subject - verb agreement?
 - The team are working hard to meet their deadlines
 - The team is working hard to meet its deadlines
 - The team am working hard to meet its deadlines
 - The team were working hard to meet their deadlines
 - Which sentence uses correct punctuation?
 - Please bring a pen paper and your textbook to the meeting
 - Please bring a pen, paper, and your textbook to the meeting.
 - Please bring a pen, paper and your textbook to the meeting.
 - Please bring a pen, paper ; and your textbook to the meeting.
- Ver - C - 2 of 5

20. Which of the following is an example of the correct use of the apostrophe?
 a) The cars windshield was cracked b) The car's windshield was cracked
 c) The cars' windshield was cracked d) The car windshield was cracked
21. What part of speech is used to join words, phrases or clauses?
 a) Preposition b) Conjunction c) Adverb d) Pronoun
22. What is the term for the fear of heights?
 a) Acrophobia b) Agoraphobia c) Claustrophobia d) Hydrophobia
23. What is the term for a person who is obsessed with their own power?
 a) Egoist b) Narcissist c) Altruist d) Introvert
24. Which of the following words is a synonym for "ephemeral"?
 a) Eternal b) Temporary c) Continuous d) Enduring
25. Which sentence demonstrates correct usage of the work "affect"?
 a) The weather will effect the crops b) The weather will affect the crops
 c) The weather will effect the crops d) The weather will affect on the crops
26. What is the antonym of the word "exquisite"?
 a) Beautiful b) Delicate c) Common d) Refined
27. Which word is the odd one out in the following group?
 a) Zealous b) Enthusiastic c) Apathetic d) Eager
28. What is the meaning of the term "vernacular"?
 a) Formal language b) Slang or informal language
 c) Foreign language d) Technical language
29. What is the question tag for the statement: "He didn't eat lunch"?
 a) He didn't eat lunch, did he?
 c) He didn't eat lunch, hasn't he?
 b) He didn't eat lunch, does he?
 d) He didn't eat lunch, isn't he?
30. What is the question tag for the statement: "He doesn't speak French"?
 a) He doesn't speak French, isn't he?
 c) He doesn't speak French, hasn't he?
 b) He doesn't speak French, does he?
 d) He doesn't speak French, can't he?
31. What is phonetics?
 a) The study of speech sounds and their physiological production.
 b) The study of written language
 c) The study of syntax and grammar
 d) The study of semantics
32. Which of the following is a key aspect of effective communication in a team setting?
 a) Dominating conversations b) Ignoring team members' opinions
 c) Active participation and collaboration d) Avoiding conflict resolution
33. What is the International Phonetic Alphabet (IPA) used for?
 a) Writing in different languages b) Transcribing speech sounds
 c) Encoding written texts d) Creating new words

Ver - C - 3 of 5

34. What is the primary difference between vowels and consonants?
 a) Vowels are voiced, consonants are voiceless
 b) Vowels involve airflow without significant constriction, while consonants involve constriction.
 c) Vowels are nasal sounds, consonants are oral sounds
 d) Vowels are always at the beginning of words, consonants are always at the end
35. Which of the following is a consonant?
 a) [j] b) [a] c) [p] d) [e]
36. How many Consonants sounds are there in English?
 a) 5 b) 10 c) 24 d) 14
37. Which of the following is a voiced consonant?
 a) [p] b) [s] c) [v] d) [f]
38. What is the term for the study of the physical properties of speech sounds?
 a) Phonology b) Phonetics c) Morphology d) Syntax
39. Which of the following is an example of a diphthong?
 a) [p] b) [ae] c) [aɪ] d) [m]
40. What part of speech is used to show the relationship between a noun (or pronoun) and other words in a sentence?
 a) Conjunction b) Verb c) Preposition d) Interjection
41. When individuals have different frames of reference due to their unique experience, it can create:
 a) Physical barriers b) Cultural barriers
 c) Semantic barriers d) Perceptual barriers
42. Which of the following is NOT a barrier to effective communication?
 a) Cultural differences b) Active listening
 c) Language barriers d) Emotional barriers
43. In the context of organizational communication, which of the following is an example of a structural barrier?
 a) Language barriers among employees b) Differences in communication styles
 c) Hierarchical organizational structure d) Lack of feedback from supervisors
44. Which of the following is NOT a step in the process of active listening?
 a) Interrupting the speaker frequently b) Providing feedback
 c) Asking clarifying questions d) Paraphrasing
45. What is the significance of feedback in communication?
 a) It ensures that the speaker talks more than the listener.
 b) It provides an opportunity for clarification and improvement
 c) It is unnecessary in effective communication
 d) It should only be given by superiors to subordinates.

Ver - C - 4 of 5

46. In the context of organizational communication, what does "inter" communication refer to?
- a) Communication between individuals within the same department
 - b) Communication between individuals from different departments or teams
 - c) Communication between employees and management
 - d) Communication between the organization and its external stakeholders.
47. Which of the following is an example of Intra-communication?
- a) A team meeting discussing project updates
 - b) A manager providing feedback to an employee
 - c) An employee preparing a report for their supervisor
 - d) An individual writing a memo to themselves for personal reminders.
48. What is the primary purpose of Intra-Communication?
- a) To facilitate collaboration between departments
 - b) To disseminate information within a team or department
 - c) To negotiate with external stakeholders
 - d) To manage conflicts between individuals.
49. Which of the following is an example of a physical barrier to communication?
- a) Language differences
 - b) Cultural differences
 - c) Noise in the environment
 - d) Lack of empathy
50. Psychological barriers to communication may include :
- a) Language barriers
 - b) Noise pollution
 - c) Emotional bias or prejudice
 - d) Misinterpretation of messages

CBCS SCHEME

BKBKK107/207

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Question Paper Version : D

**First/Second Semester B.E./B.Tech Degree Examination,
Dec.2024/Jan.2025
Balake Kannada**

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.

Translate the following Kannada words as per the given model [Q.No. 1 and 2]
Example : Kacheri – Kacheriyalli.

1. Mane
a) Manadalli b) Maneyinda c) Maneyalli d) Mane
2. Angadi
a) Angadiyalli b) Angadihattira c) Angadiyage d) Angadiyolage
3. How would you write "This is my Book" in Kannada?
a) Adu Nanna pustaka b) idu nanna pustaka
c) Idu Avaru pustaka d) idu nannadu
4. How would you write "what is this" in Kannada?
a) Idu elli b) Idu yarige c) Idu yavudu d) Idu Avaradu
5. How would you write Fruit in Kannada
a) Hoovu b) Ele c) HaNNu d) BaNNa
6. How would you write "why sir" in Kannada?
a) Elli sir b) Yaake Saar c) Hogi Saar d) Banni Saar
7. What is the meaning of "Student" in Kannada?
a) Huduga b) Vidyarthi c) Jana d) Shale

8. How would you write "don't" in Kannada?
 a) Beku b) Beke c) Beda d) Yaake
9. How would you write "Marriage" in Kannada?
 a) Habba b) Maduve c) Sabe d) Prarthane

Write the English word for the following :

10. Chikka
 a) Big b) Huge c) Small d) House
11. PaaTa
 a) Story b) Lesson c) Book d) Drink
12. aNNa
 a) Sister b) Mother c) Father d) Brother
13. Ketta
 a) Good b) Bad c) New d) Big
14. Huduga
 a) Son b) Boy c) Daughter d) Sister

Match the following using the Table given below :

a) Fruit	i) Vaidya
b) Tree	ii) Desha
c) Flower	iii) Mara
d) Doctor	iv) Hannu
e) Country	v) Hoovu

15. Fruit
 a) = i b) = ii c) = iii d) = iv
16. Tree
 a) = i b) = ii c) = iii d) = iv
17. Flower
 a) = i b) = iii c) = iv d) = v
18. Doctor
 a) = i b) = ii c) = iii d) = v
19. Country
 a) = i b) = ii c) = iv d) = v

Translate the following English sentence into Kannada sentence :

20. Who are they?
 a) Neenu yaaru b) Avaru yaaru c) Neenu yelli d) Avaru Enu

21. What is her Name?
a) Avalu yaru
c) Avala hesarenu
b) Avana hesarenu
d) Ninna hesarenu
22. This is my Nation
a) Idu Avara desha
c) Adu Ninna desha
b) Idu Nanna desha
d) Idu Ninna desha
23. What is your name?
a) Avala Hesaru Enu?
c) Ninna Hesaru Enu?
b) Avana Hesaru Enu?
d) Nanna Hesaru Enu?
24. This is my pen.
a) Idu nanna pustaka
c) Idu Avara Lekhani
b) Idu Avara vastu
d) Idu Nanna Lekhani

Fill in the blank for the given English words into Kannada meaning :

25. Small
a) Udda
b) agala
c) Dappa
d) Chikka
26. Salty
a) huLi
b) Uppu
c) Khara
d) Sihi
27. Simple
a) Khatina
b) Tappu
c) Sarala
d) Khasagi
28. Daily
a) Nale
b) Nenne
c) Nadiddu
d) Dina Nitya
29. Dignity
a) Samasye
b) Ghanathe
c) Sari
d) Olleya

Write the Kannada Vocabulary for the following English words :

30. Child _____
a) navu
b) Avaru
c) Magu
d) vidyarthi
31. Plant _____
a) Mara
b) Gida
c) Hoova
d) Rembe
32. Story _____
a) Kate
b) Angadi
c) Mane
d) Kavana
33. Where _____
a) Enu
b) Eke
c) yaaru
d) Elli
34. Bad _____
a) hosa
b) Naataka
c) Ketta
d) Olleya

Translate the following Kannada words into English :

35. Maga
a) Father b) Sister c) Daughter d) Son
36. Mane
a) Temple b) House c) Church d) Hospital
37. Kempu BaNNa
a) Black colour b) Red colour c) White colour d) Green colour

Translate the following English words into Kannada :

38. We
a) Naavu b) Namma c) Namage d) Nimage
39. This
a) Adu b) Alli c) Idu d) Both (a) and (b)
40. He
a) Avanu b) Avalu c) Naanu d) Neenu

Match the following using Table given below :

a)	White	i)	Hudugi
b)	Girl	ii)	Sihi
c)	Daughter	iii)	Granthalaya
d)	Sweet	iv)	Bili
e)	Library	v)	Magalu

41. White
a) = i b) = ii c) = iii d) = iv
42. Girl
a) = i b) = ii c) = iii d) = v
43. Daughter
a) = i b) = ii c) = iv d) = v
44. Sweet
a) = i b) = ii c) = iii d) = iv
45. Library
a) = i b) = ii c) = iii d) = iv

Write appropriate words for the following :

46. Mother
a) Huduga b) Hudugi c) Tayi d) Tande

47. Festival
a) Maduve b) Habba c) Mane d) Raste
48. Bitter
a) Sihi b) Khara c) Uppu d) Kahi
49. Holiday
a) Mara b) Raje c) Nagu d) Ooru
50. Town
a) Halli b) Angadi c) Nagara d) Rajya

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First/Second Semester R.E/R.Tech. Degree Examination, Dec.2024/Jan.2025

ಸಂಸ್ಕೃತಿಕ ಕನ್ನಡ

(COMMON TO ALL BRANCHES)

Time: 1 hrs.]

[Max. Marks: 50

ಸೂಚನೆಗಳು

1. ಎಲ್ಲ ಕೂ ಪ್ರಶ್ನೆಗಳಿಗೂ ಉತ್ತರಿಸಿ. ಪ್ರತಿ ಪ್ರಶ್ನೆಗೆ ಒಂದು ಅಂಕ.
2. ಒ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಯು.ಎನ್.ಎನ್ ಸಂಖ್ಯೆ ಹಾಗೂ ಪಶ್ಯ ಪತ್ರಿಕೆಯ ಶ್ರೇಣಿಯನ್ನು ಅಂದರೆ A, B, C ಅಥವಾ D ಯನ್ನು ತಪ್ಪಲ್ಲದಂತೆ ಕಡ್ಡಾಯವಾಗಿ ಗುರುತಿಸುವುದು ಅಭ್ಯರ್ಥಿಯು ಜವಾಬ್ದಾರಿಯಾಗಿರುತ್ತದೆ.
3. ಒ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ನಿಗದಿಪಡಿಸಿರುವ ಸ್ಥಳದಲ್ಲಿ ಭರ್ತಿಮಾಡದ ಹಾಗೆಯೇ ಒಟ್ಟಲ್ಲಿ ಅಥವಾ ಭರ್ತಿಮಾಡಿದ ಮಾಹಿತಿಯಲ್ಲಿ ಯಾವುದೇ ವ್ಯತ್ಯಾಸವಿದ್ದಲ್ಲಿ ಅಂತಹ ಉತ್ತರ ಪತ್ರಿಕೆಗಳನ್ನು ರದ್ದು ಪಡಿಸಲಾಗುವುದು. ಕೇವಲ ಒಂದು ಉತ್ತರವನ್ನು ಮಾತ್ರ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಗುರುತಿಸತಕ್ಕದ್ದು. ಒಂದ ಪ್ರಶ್ನೆಗೆ ಎರಡು ಉತ್ತರವನ್ನು ಗುರುತಿಸುವುದು ಅಪರಾಧ.
4. ಎಲ್ಲಾ ಉತ್ತರಗಳನ್ನು ನಿಮಗೆ ಒದಗಿಸಲಾದ ಒ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯು ಹಾಳೆಯು ಮೇಲೆ ಕಪ್ಪು ಅಥವಾ ನೀಲಿ ಶಾಹಿಯ ಬಾಲ್‌ಪಾಯಿಂಟ್ ಪೆನ್ನಿನಿಂದ ಗುರುತು ಮಾಡಬೇಕು.

1. ಉಗಂಧ _____ ಕೊಡುವ ಹುರಿ ತಿಂಬದ ಮಾಯದೆ?
 - a) ಮಸ
 - b) ಕಾಡು
 - c) ಸ್ವಲ್ಪಾನ
 - d) ಹುತ.
2. ಕೆಲ ಏನು _____ ಕಿರಿದನ್ನಬಹುದು ಆದರಿಯ್ಯೆ.
 - a) ಒಕ್ಕೂಟ
 - b) ನೆನಪು
 - c) ಮರವು
 - d) ಅಂಕುಶ.
3. ಕೊಂಡೊಳು _____ ದುರಿತ ಪೋಗುವದೆ?
 - a) ಮಿಂಡದ
 - b) ಕಾಡಿದದ
 - c) ಕುಟದದ
 - d) ಮರತದ.
4. ಪದವದ ಲತೆಗೆ _____ ಇರುವುದು ಯಾವು ?
 - a) ಕೆಪ್ಪು
 - b) ಕೆಸಿದು
 - c) ಚಿತ್ರ
 - d) ಕೆಂಪು.
5. ಬ್ರಹ್ಮಾ ದ್ರವದ್ವಿಗ್ನ ಯಾವು ಕುಂಡೊಂದಿರಬಹುದು ಕೆಲವರು ಹೇಳಿದ್ದಾರೆ?
 - a) ಕುಂಬಾರ
 - b) ಒಡಿಗ
 - c) ಕುಂಬಾರಿ
 - d) ಗಾಣಿ

Ver - D 1 of 6

Ver - D 2 of 6

6. ಎಷ್ಟು ಕಾಡಿಗೆ ಕುಂಬಾರಿ ಒಂದು ಕುಡುಕುನ್ನು ಮಾಡುವುದು?
 - a) 3
 - b) 6
 - c) 9
 - d) 10
7. ನಗುವು ಸಹಜದ ರಮೆ ನೋವುವುದು ____
 - a) ಕರವರಮೆ
 - b) ಕರವರಮೆ
 - c) ಕರವರಮೆ
 - d) ಕರವರಮೆ
8. ವಿಶ್ವೇಶ್ವರಿಯನ್ನು ಕವರ ಕವರವರು ಮಾಡಿದ್ದಾರೆ?
 - a) ಕಾರವರವರು
 - b) ಕಾರವರು
 - c) ಕಾರವರು
 - d) ಕಾರವರವರು
9. ಗ್ರಂಥಕರ್ತರ ಸಹ್ಯುಗಳನ್ನು _____ ರಚಿಸಿದರು.
 - a) 1977
 - b) 1907
 - c) 1910
 - d) 1974
10. ಭಾರತ ಸರ್ಕಾರವು ಕನ್ನಡ ಭಾಷೆಯನ್ನು _____ ಎಂದು ಘೋಷಿಸಿದೆ.
 - a) ಕಾರ್ಯಯ ಭಾಷೆ
 - b) ಕನ್ನಡಭಾಷೆ
 - c) ತ್ರಿಭಾಷೆ
 - d) ರಿವಿ.
11. ಕೇವಲ ಕಾಸುಮಯ್ಯನವರ ಅಂಕಿತವನ್ನು
 - a) ಚನ್ನ
 - b) ಕೆಪ್ಪು
 - c) ಗಣಕೇಶವರ
 - d) ಕಾರವರವರ
12. ಅರಿಸುವ ಅಥವಾ ಗ್ರಹಿಸುವ ಕೆಲಸ ಈ ಕಾರ್ಯದಲ್ಲಿರುವ ತಪ್ಪು ವಿಚಾರ ಯಾವುದು?
 - a) ಅ
 - b) ಎಲ್ಲಿ
 - c) ಗೆ
 - d) ಕಾರವರವರ
13. ವಿನೋಬಾ ಭಾವೆಯವರು ಕನ್ನಡ ರಿಯನ್ನು ವಿನೆಂದು ಕರೆಯುತ್ತಾರೆ?
 - a) ಕಾರವರವರ
 - b) ಕಾರವರವರ
 - c) ಕಾರವರವರ
 - d) ಕಾರವರವರ
14. ಕಾರ್ಮಿಕ ಮನ್ನಣೆಗಾಗಿ ಯಾವ ಕಲ್ಯಾಣ ಕುರಿತು ಅಗಿ ಕಾರ್ಮಿಕ ಮನ್ನಣೆ ನೀಡಿದ್ದಾರೆ?
 - a) ಭಾಗವರವರ
 - b) ಭಾಗವರವರ
 - c) ಭಾಗವರವರ
 - d) ಭಾಗವರವರ
15. ಕೆಲವರ ಕವನದ ಸಮಾನಾರ್ಥಕರ ಕವನ
 - a) ಕಾರ್ಮಿಕ
 - b) ಕಾರ್ಮಿಕ
 - c) ಭಾಗವರವರ
 - d) ಭಾಗವರವರ
16. ಕವನ ನಾಗರವರವನ್ನು ಕವನದ ಹಬ್ಬದ ಸ್ಥಳ
 - a) ಕವನ ಸಂಧ
 - b) ಕವನ ಸಂಧ
 - c) ಭಾಗವರವರ
 - d) ಭಾಗವರವರ

17. ಕಬ್ಬಿಗರ ಕಾವ್ಯ ಕೃತಿಯನ್ನು ರಚಿಸಿದ ಕವಿ ಯಾರು?
 a) ಹಂದ b) ದನ್ನ c) ಜನ್ನ d) ಅಂದಯ್ಯ
18. ತಂತ್ರಜ್ಞಾನದ ಬೆಳವಣಿಗೆಯ ಫಲವಾಗಿ ಕನ್ನಡ ಭಾಷೆಗೆ ಸಾಕಷ್ಟು _____ ಪದಗಳು ಸೇರಿಕೊಂಡಿವೆ.
 a) ತೆಲುಗು b) ತಮಿಳು c) ಇಂಗ್ಲಿಷ್ d) ಮಲಯಾಳಿ
19. ಕರಾರರ ಚಳುವಳಿಗೆ ಪ್ರೇರಣೆ ಕೊಡಲು ನಿಂತ ಮಹಾ ಮನವತಾವಾರಿ.
 a) ಅಕ್ಕ ಮಹಾದೇವಿ b) ಅಯ್ಯಮ್ಮಿ ಮಾಂದಯ್ಯ
 c) ಬಸವಣ್ಣ d) ಅಯ್ಯಮ್ಮಿ ಲಕ್ಕಮ್ಮ
20. ಳ್ಲಿ ಪದದ ತದ್ಭವ ರೂಪ _____
 a) ಪ್ರಕೃತಿ b) ವಿಕ್ರತಿ c) ಸಂಸ್ಕೃತಿ d) ಭಕುತಿ
21. ವಸುಧೇಂದ್ರವರು ಬರೆದ ಕಾದಂಬರಿ ಇದಾಗಿದೆ:
 a) ಮುನೀಷ್ b) ಕೃತಿ c) ಕರ್ಪುರ್ d) ಸಂಕಲನ
22. ಪ್ರಕೃತದ _____ ಇಂಪೆನಿಯರ್.
 a) ನಾಪ್ತೇರ್ b) ಇಂಪೆನಿಯರ್ c) ಸೆವಿರ್ ಇಂಪೆನಿಯರ್ d) ಮಹಾನಿಕ್
23. ವಿಜಯನಗರ ಸಾಮ್ರಾಜ್ಯದ ರಾಜಧಾನಿ
 a) ಹಂಪೆ b) ಬೆಂಗಳೂರು c) ಹಳೇಬೀಡು d) ಕೋಲಾರ
24. ನಮ್ಮ ರಾಜ್ಯದಲ್ಲಿ _____ ಸೂತ್ರ ಬಳಕೆಯಲ್ಲಿದೆ.
 a) ವಿಶ್ವಾಸಾ b) ದ್ವಿಭಾಷಾ c) ತ್ರಿಭಾಷಾ d) ಭಾಷಾ
25. ದ್ರವೀಣಕೃಷ್ಣೇಟ್ ಬಗ್ಗೆ ಹೇಳುವ ಶಾಸನ _____
 a) ಹಳೇಬೀಡು b) ಬೆಂಗಳೂರು c) ಹಂಪೆ d) ಕಾನನ
26. ಬುಧ್ಧರಾಯನ ಕಾಲ ಸರಿಸುಮಾರು _____ ವರ್ಷ.
 a) 1368 b) 1468 c) 1568 d) 1668.
27. ಕುರುತು ಕಾಯಾಣ ಪದ್ಯದ ಕವಿ
 a) ಕುವೆಂಪು b) ದ.ರಾ.ಬೇಂದ್ರೆ
 c) ದಿ.ವಿ.ಜಿ d) ಗೋಕಾಕ್

28. ಯುಗಾದಿ ಕಥೆಯಲ್ಲಿ ಯಾರನ್ನು 'ಖಡಕ್ ಮಗ್ಗನ' ಎಂದು ಕರೆಯಲಾಗಿದೆ?
 a) ಗೋಪಣ್ಣ b) ಪ್ರಹ್ಲಾದ
 c) ಇಸ್ಮಾಯಿಲ್ d) ಶಾಕುಂತಲಾಕ್
29. ಯುದ್ಧದಲ್ಲಿ ಗದ್ದು ಬಂದರೆ ಕೀರ್ತಿ. ಸತ್ಯದ _____
 a) ನಂದ b) ಹಣ c) ಪ್ರಶಸ್ತಿ d) ಸ್ವರ್ಗ
30. ಹಲವು ಕಾಲ ಕಲ್ಲು ನೀರೂಳಿಗಿದ್ದರನ್ನು ಬಯಸೆನದು _____ ಆಗುವುದು.
 a) ಅಮೃತಕೆಲ b) ಹವಳು c) ಕಡ್ಡೆ d) ನಿಧಿ.
31. ಹಂಪನಾಗರಾಜಯ್ಯನವರು ಹುಟ್ಟಿದ ವರ್ಷ.
 a) 1936 b) 1946 c) 1947 d) 1935
32. ಕನ್ನಡ ಬರಹಗಳಿಗೆ _____ ವರ್ಷಗಳ ಇತಿಹಾಸವಿದೆ.
 a) 1956 b) 1884 c) 1956 d) 1500
33. ಹುಲ್ಲುಗು ಬೆಳೆದಡಿ ಮನೆಗೆ _____ ಆಗು.
 a) ಸಂಪಿಗೆ b) ಮಲ್ಲಿಗೆ c) ಇಂಪಿಗೆ d) ತಂಪಿಗೆ
34. ಶಿಶುನಾಳ ಪರಿಣಿತರ ಪ್ರಕಾರ ಕುಂಬಾರನಿಗೆ ಚಿನ್ನ ಎಂದರೆ
 a) ಬಂಗಾರ b) ಮಣ್ಣು c) ತೋಟ d) ಕಾರ್ಪ
35. ಪದ್ಮ ಪದದ ಅರ್ಥ.
 a) ರತ್ನ b) ಸ್ವರ್ಗ ಪೀಠನ c) ದಾಡಿ d) ಜ್ಞಾನ
36. ಜನಪದ ಅಕಾಡೆಮಿಯ ಅಧ್ಯಕ್ಷರು _____
 a) ಹುಚ್ಚಪ್ಪ ಮಗ್ಗನ b) ಶ್ರೀ.ಎನ್.ಕೆ.ಕರೀಂಚಾನ್
 c) ಹಿ.ಬಿ.ಬೋರಡಿಂಗಯ್ಯ d) ಶ್ರೀನಿವಾಸಮೂರ್ತಿ
37. ಕವಿರಾಜಮಾರ್ಗದಲ್ಲಿ _____ ಅವರನ್ನು ಕುರಿತು ವರ್ಣಿಸಲಾಗಿದೆ?
 a) ತಮಿಳರು b) ಕೇರಳಿಗರು c) ಕನ್ನಡಿಗರು d) ಮರಾಠಿಗರು
38. ಕನ್ನಡ ಭಾಷೆಗೆ ಎಷ್ಟು ಪ್ರಮುಖ ಕೌಶಲ್ಯಗಳಿವೆ?
 a) 10 b) 20 c) 4 d) 8.

39. ಪಟನ ಎಂದರೆ ____.
- a) ಪುಟಾಟ b) ಸಮಾಜ c) ಭಾಷೆ d) ದೇಶ
40. ಸುಂಕ ಪದದ ಅರ್ಥ.
- a) ಕಾನು b) ಆದ c) ತರಿಗೆ d) ನೋವು.
41. ವಿಜ್ಞಾನ ಪದದ ಅರ್ಥ.
- a) ಕ್ರಾಂತಿ b) ಸ್ವರ್ಗ c) ಕವಿತೆ d) ಕಾರ್ಯ
42. ಶಿಬಿರಗಳ ಪರಿಚಯ ಪ್ರಕಾರ 'ಆಚಾರ್' ಎಂದರೆ
- a) ಆದಿಗ ಅಥವಾ ಮುಖ್ಯ b) ಮುಖ್ಯ c) ನೀರು d) ಮನ.
43. ವಿಶ್ವೇಶ್ವರಯ್ಯ ಕನ್ನಡ ಮತ್ತು ಉತ್ತಮ ಕಾವ್ಯಾನ ಯಾವ ಜಿಯುರಿದ?
- a) ಮಂಡ್ಯ b) ಮಂಗಳೂರು c) ಮೈಸೂರು d) ಶಿವಮೊಗ್ಗ
44. ಗಾಂಧೀಜಿಯವರು ಯಾರನ್ನು 'ಅನ್ಯಭಕ್ತ' ಎಂದು ಕರೆದಿದ್ದಾರೆ?
- a) ಕುವೆಂಪು b) ಸರ್. ಎಂ. ವಿಶ್ವೇಶ್ವರಯ್ಯ c) ಡಿ.ವಿ.ಜಿ d) ಅಕ್ಕಿಹೆಬ್ಬಾಳು ನರಸಿಂಹಮೂರ್ತಿ
45. ಯುಗಾದಿ ಕಥೆಯು ಲೇಖಕರು ಯಾರು?
- a) ಡಿ.ವಿ.ಜಿ b) ಚದುರಂಗ c) ಅನಕೃಷ್ಣ d) ವಿಶ್ವಗೋಪಾಲ್
46. ಕಾಸಿಂಸಾಬರ ಮಗಲ ಹೆಸರೇನು?
- a) ಚಾಂದಿನಿ b) ಹಂಸ c) ರೇಖಾ d) ರೂಪ.
47. ಹೊಸದರ ಉದಾಹರಣೆ ಲಿಪಿಗಳೆನು. ತ್ರಿಪದಾರದ ಕೆರೆ ಬಾವಿ ಹಳ್ಳಿಗಳೆನು. ಶಬ್ದನಿರ್ಮಿತಿಯ ಹಾಳುಬರಗುಳುಗಳೆನು. ಈ ಪಟನವನ್ನು ರಚಿಸಿದವರು.
- a) ಅಕ್ಕಿಮಾಹಾರೇವಿ b) ಬಸವಣ್ಣ c) ರಾಮನಾಥ d) ಅಲ್ಲಮ ಪ್ರಭು.

48. ವಿದ್ಯಾವ್ಯವರೇ ಸಂಘವನ್ನು ಯಾವ ಕಾರಣಕ್ಕಾಗಿ ಸ್ಥಾಪಿಸಲಾಯಿತು.
- a) ಕರ್ನಾಟಕ ಸಂಸ್ಕೃತಿಗಾಗಿ b) ದೇಶಕ್ಕಾಗಿ c) ಭಾಷೆಗಾಗಿ d) ಕರ್ನಾಟಕ ವಿಶೇಷಕ್ಕಾಗಿ

49. ತೆಲ್ಲವೆಸರಿನ ಕಂಠ್ಯ ತಾಳು ಮನವೇ ಹೀಚನೆಯು ಹೀಚನಕಾರರು ಯಾರು?
- a) ಪುಂದರದಾಸರು b) ಶ್ರೀರಂಗರು c) ಕನಕದಾಸರು d) ವಂಕಟಪುಷ್ಪಯ್ಯ
50. ವಿಠಲ ಜೀವನ ಸ್ಮಾರಕಗಳನ್ನು ಏನಂದು ಕರೆಯುವರು?
- a) ನಿರೀತಲ b) ವಿಠಲಗಲ್ಲು c) ಮ್ಯಾಸಿಗಲ್ಲು d) ಬರಹದಕಲ್ಲು

CBCS SCHEME

BIDTK158/258/22BD16

USN

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Question Paper Version : A

**First/Second Semester B.E./B.Tech/B.Design Degree Examination,
Dec.2024/Jan.2025**

Innovation and Design Thinking

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. Design thinking is a process of _____
 - a) Thinking about design
 - b) Designing ways in which people think
 - c) Asking users to solve problems
 - d) Defining framing and solving problems from user's prospective.
 2. Design thinking typically helps in _____
 - a) Innovation
 - b) Data analytics
 - c) Financial planning
 - d) Operation efficiency
 3. Design thinking principle DO NOT include
 - a) Feasibility
 - b) Viability
 - c) Desirability
 - d) Credibility
 4. Design thinker in an organization are
 - a) People
 - b) Employees
 - c) Managers
 - d) All of these
 5. What are the steps of Design thinking process?
 - a) Understand > Draw > Ideate > Create > Test
 - b) Empathize > Define > Ideate > Prototype > Test
 - c) Empathize > Design > Implement > Produce > Test
 - d) Understand > Define > Ideate > Produce > Try

6. Design thinking is a linear process
a) True b) False c) Cannot say d) None of these
7. Which of these is a reason that companies might implement design thinking?
a) It relies on risk - taking b) It creates more problem
c) It accelerates effectiveness d) It eliminates mistakes
8. Tools of Design thinking are _____
a) Visualization b) Experience mapping
c) Rapid concept development d) All of these
9. Collaboration in design thinking for strategic innovation includes.
a) Collaboration with all the members of the organization for shared solution for complex problem.
b) Collaboration with design thinking team
c) Collaboration with design thinking consultant
d) Collaboration with operation team.
10. What does MVP stand for _____
a) Most viable product b) Maximum viable product
c) Minimum viable product d) None of these
11. Journey Mapping is a _____
a) Geographic research b) Ethnographic research
c) Both (a) & (b) d) None of these
12. Which of the following are NOT tools of Design thinking?
a) Co - creation b) Prototyping
c) Online Marketing d) Mind Mapping
13. _____ is a way of collaboration where participants, regardless of their location, work together to reach a certain goal.
a) Distributed work b) Distributed collaboration
c) Multiple perspective d) All of these
14. A Rapid concept Development can be used before the progress of _____
a) 25% b) 50% c) 30% d) 35%
15. Mind Maps are used to _____ ideas.
a) Generate b) Visualize c) Organize d) All of these
16. Brain storming session is _____
a) There is no rule, it is UP to the brainstorming facilitator to decide
b) A mix of individual and collective activities
c) A collective activity only
d) An individual activity only
17. Preparing and representing project information in the form of stories, maps and images is _____
a) Journey mapping b) Visualization
c) Value chain analysis d) Prototyping

18. What is way to narrow down the thoughts to reach at the final solution?
 - a) Convergent thinking
 - b) Divergent thinking
 - c) Linear thinking
 - d) All of these
19. To Empathize in design thinking means
 - a) To understand the user
 - b) To have sympathy
 - c) To be socially responsible
 - d) To understand the Technology
20. _____ is used with the objective of identifying the needs of the customers which the customers themselves are unable to articulate.
 - a) Mind mapping
 - b) Experience mapping
 - c) Story telling
 - d) Rapid concept development
21. The three "I"s of design thinking DO NOT includes.
 - a) Interest
 - b) Implementation
 - c) Inspiration
 - d) Ideation
22. What is the characteristic for the location of a virtual team?
 - a) In the same building
 - b) Remotely
 - c) In the same industry
 - d) In the same country
23. Design thinking follows
 - a) Waterfall Model
 - b) Agile methodology
 - c) Both of these
 - d) None of these
24. Collaborative team work is essential in design thinking for
 - a) Equal importance to all members
 - b) Solving multifaceted problems
 - c) Unbiased selection of ideas
 - d) Better failure management
25. BPM stands for
 - a) Building Product Management
 - b) Business Product Management
 - c) Business Process Management
 - d) Basic Product Management
26. _____ is an iterative and incremental method of managing development and design.
 - a) Agile Methodology
 - b) Waterfall Model
 - c) Cyclic Methodology
 - d) All of these
27. Which of the following sequences is correct for Waterfall Methodology?
 - a) Define – Design – Develop – Test – Deploy
 - b) Define – Develop – Design – Test – Deploy
 - c) Define – Design – Develop – Deploy – Test
 - d) Design – Define – Develop – Test - Deploy
28. Representation of prototypes by
 - a) Story board
 - b) Scenarios
 - c) Screen shots
 - d) All of these
29. Scope of Strategic Innovation includes
 - a) Managed Innovation
 - b) Strategic Alignment
 - c) Industry Foresight
 - d) All of these

30. What is the term for the phenomenon that a new IT system is implemented across the whole organization simultaneously?
- a) Immersed approach
 - b) Parallel approach
 - c) Plunge approach
 - d) Instant approach
31. “Products are shaped by stories that people tell about them”. The phrase indicates the importance of _____
- a) Importance of product
 - b) User experience
 - c) Importance of stories
 - d) Importance of Narration
32. The reconfiguration of existing product technologies is known as
- a) Modular Innovation
 - b) Radical Innovation
 - c) Architectural Innovation
 - d) Incremental Innovation
33. What is the goal of value chain analysis?
- a) To create a better value for customer in the value chain
 - b) To visualize ideas and organize them
 - c) To develop new business opportunities
 - d) To test prototypes of proposed solutions
34. A model of a proposed solution looks as close as possible to the final design is _____ prototype
- a) High fidelity
 - b) Low fidelity
 - c) No fidelity
 - d) MVP
35. Which tool is used to represent how ideas are linked to main idea?
- a) Visualization
 - b) Journey mapping
 - c) Mind mapping
 - d) Rapid concept development
36. What is the core belief behind co-reaction?
- a) The presence of users is essential to the creative process
 - b) Rapid development of new business ideas
 - c) Testing assumptions about a new business idea
 - d) Visualizing ideas and organizing them
37. What is the purpose of learning launches?
- a) To test prototype of proposed solutions
 - b) To explore the fundamental assumptions of market potential for new growth
 - c) To analyze the value chain of an organization
 - d) To create a visual representation of a business idea
38. What is Business Process Modelling?
- a) A way of visualization business strategies
 - b) A method for quality management
 - c) A method for time and motion study
 - d) A way of dividing business processes into basic components and functions.
39. Frank Robinson defined and coined the term
- a) Design thinking
 - b) Mind mapping
 - c) MVP
 - d) Hypothesis

40. Experience economy has resulted in
a) Active participation
b) Passive consumption
c) Minimum consumption
d) None of these
41. Outsourcing of innovation globally is more likely where :
a) Innovations are autonomous
b) Innovations are systematic
c) Innovations are systematic or autonomous
d) Innovations are made by service sector firms
42. Which of the below firm is associated the most with design thinking?
a) Ikea
b) Ideo
c) Idea
d) Ikei
43. Design thickners create low fidelity prototypes to
a) Validate concepts for the market
b) Build production ready products
c) Estimate the price of production
d) Test concepts quickly and cheaply with potential users
44. Extension of a successful brand or iteration a current period is
a) Revolutionary Innovation
b) Dynamic Innovation
c) Incremental Innovation
d) Evolutionary Innovation
45. Benefits of Agile in virtual collaboration are
a) Allow openers
b) Rhythm building
c) Visualize the whole thing
d) All of these
46. Which famous design school become most vital in framing design thinking as a core subject
a) Trinity College
b) Business School, Ahmadabad
c) Massachusetts University
d) Stanford d. school
47. The word design thinking is defined by
a) Tim Brown
b) Rober Mckin
c) Peter Rowes
d) Balter Moore
48. David is testing his prototype, what should his next move be?
a) Ideate and come up with more idea
b) Research the people he is designing for
c) Collect feedback from the testers to evaluate his idea
d) Change his problem statement
49. What element of user experience design would be the design strategy full under?
a) Interaction design
b) Experience strategy
c) User Research
d) Information architecture
50. What purpose does point of view (POV) serve in design thinking?
a) It serves as the guide for developing the prototype
b) It illustrates what your competitors are doing better
c) It is used in the testing phase for receiving feedback
d) It provides focus for the design team is brain storming.

* * * * *

VTU-19-02-2025 08:43:48am

MP - MP - MP - MP - MP - MP - MP - MP - MP - MP

19-02-2025 09:05:06am

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CBCS SCHEME

BIDTK158/258/22BD16

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Question Paper Version : B

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Dec.2024/Jan.2025**

Innovation and Design Thinking

Time: 1 hr.]

[Max. Marks: 50

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36. Design thinking is a linear process
- True
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37. Which of these is a reason that companies might Implement design thinking?
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40. What does MVP stand for _____
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49. Scope of Strategic Innovation includes
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50. What is the term for the phenomenon that a new IT system is implemented across the whole organization simultaneously?
a) Immersed approach b) Parallel approach
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Question Paper Version : C

**First/Second Semester B.E./B.Tech/B.Design Degree Examination,
Dec.2024/Jan.2025**

Innovation and Design Thinking

Time: 1 hr.]

[Max. Marks: 50

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a) Importance of product
b) User experience
c) Importance of stories
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prototype
a) High fidelity
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 5. Which tool is used to represent how ideas are linked to main idea?
a) Visualization
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c) Mind mapping
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6. What is the core belief behind co-reaction?
 - a) The presence of users is essential to the creative process
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7. What is the purpose of learning launches?
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 - d) A way of dividing business processes into basic components and functions.

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 - a) Validate concepts for the market
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 - d) Test concepts quickly and cheaply with potential users
24. Extension of a successful brand or iteration a current period is
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25. Benefits of Agile in virtual collaboration are
 - a) Allow openers
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26. Which famous design school become most vital in framing design thinking as a core subject
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41. Journey Mapping is a _____
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42. Which of the following are NOT tools of Design thinking?
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43. _____ is a way of collaboration where in participants , regardless of their location , work together to reach a certain goal.
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44. A Rapid concept Development can be used before the progress of _____
 a) 25%
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48. What is way to narrow down the thoughts to reach at the final solution?
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Innovation and Design Thinking

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