

Il Jai Sri Gurudev II

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

BGS College Of Engineering and Technology





VTU - Model & Oct 2023 - Exam Question Papers

Physics Cycle





CONTRACTOR OF THE PERSON OF THE PART OF TH

||Jai Sri Gurudev || BGSKH Education Trust (R.) – A unit of Sri Adichunchanagiri Shikshana Trust(R.)

BGS College of Engineering and Technology

Mahalakshmipuram, West of Chord Road, Bengaluru-560086 (Approved by AICTE, New Delhi and Affiliated to VTU, Belagavi)

Physics Cycle 2022-Sheme

Model & Theory Question Papers for 2nd Semester

thematics for CSE Stream-02 plied Physics for CSE Stream roduction to Electrical Engineering ncipal of Programming Using C
roduction to Electrical Engineering
ncipal of Programming Using C
newable Energy Sources for CSE Stream
ste Management
ovation & Design thinking
roduction to Internet of Things
mmunicative English
nskruthika Kannada

Second Semester B.E./B. Tech. Degree Examination, June/July 2023 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 $\int_{0}^{1} \int_{0}^{\sqrt{1-x^2-y^2-y^2}} \int_{0}^{\sqrt{1-x^2-y^2-y^2}} xyz dz dy dx$	7	L2	со
	b.	Evaluate by changing the order of integration $\int_{0}^{\infty} \int_{x^2 + y^2}^{x} dxdy$.	7	L.3	co
	c.	Show that $\beta(m,n) = \frac{\Gamma(m)\Gamma(n)}{\Gamma(m+n)}$.	6	L2	COI
		OR			
Q.2	a.	Evaluate $\int_{-2}^{2} \int_{0}^{4} (2-x) dy dx$ by changing into polar coordinates.	7	L3	COI
	b.	A pyramid is bounded by three coordinate planes and the plane $x + 2y + 3z = 6$. Compute the volume by double integration.	7	L3	COI
	c.	Using Mathematical tools, write the code to find the area of the cardioids $r = a(1 + \cos \theta)$ by double integration.	6	L3	COS
		Module – 2			
.3	a.	Show that the two surfaces $xz + y + z^2 = 9$ and $z = 4 - 4xy$ at $(1, -1, 2)$ are orthogonal.	7	L3	CO2
	b.	If $F = grad(xy^3z^2)$, find div1 and cut11 at the point $(1, -1, 1)$.	7	L2	CO2
	c.	Prove that the cylindrical coordinate system is orthogonal.	6	L3	CO2
		OR			
.4	а.	Find the directional derivative of $\phi = x \log z - y^2 + 4$ at (-1, 2, 1) in the direction of the vector $2i - j - 2k$.	7	L2	CO2
	b.	Find the constants a, b and c such that $F = (axy - z^3)i + (bx^2 + z)j + (bxz^2 + cy)k$ is irrotational.	7	L2	CO2
	c.	Using the Mathematical tools, write the codes to find the gradient of $\phi = xy^2z^3$	6	L3	CO5

		Module – 3	-		002
.5 a	a. I	Let $W = \{(x, y, z) \mid x + my + nz = 0\}$, then prove that W is a subspace of \mathbb{R}^3 .	7	L2	CO3
t	o. 1	Find the basis and the 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. 1	Prove that $T: R^3 \to R^3$ be defined by $T(x, y, z) = (2x-3y, x+4, 5z)$ is not a linear transformation.	6	L3	CO3
		OR "V			
2.6		Show that the matrix $E = \begin{bmatrix} -1 & 7 \\ 8 & -1 \end{bmatrix}$ lies in the sub space span {A, B, C} of	7	L2	CO3
		vector space M_{22} of 2×2 matrices, where $A = \begin{bmatrix} 1 & 0 \\ 2 & 1 \end{bmatrix}, B = \begin{bmatrix} 2 & -3 \\ 0 & 2 \end{bmatrix} \text{ and } C = \begin{bmatrix} 0 & 1 \\ 2 & 0 \end{bmatrix}.$			
	b.	Verify the Rank-nullity theorem for the linear transformation $T: \mathbb{R}^3 \to \mathbb{R}^3$ defined by $T(x,y,z) = (x+2y-z,y+z,x+y-2z)$.	7	L3	CO3
	c.	Define an Inner product space. Consider $f(t) = 4t + 3$, $g(t) = t^2$, the inner	6	L2	CO3
		product $\langle f, t \rangle = \int_0^t f(t)g(t)dt$. Find $\langle f, g \rangle$ and $ g $.			
		Module – 4	-	1	001
Q.7	a.	Find the real root of the equation $x \log_{10} x - 1.2$ by the Regula-Falsi method between 2 and 3. (Carryout three iterations).	7	L2	CO4
	b.	From the following table, estimate the number of students who have obtained the marks between 40 and 45. Marks $30-40$ $40-50$ $50-60$ $60-70$ $70-80$ Number of students 31 42 51 35 31	7	L2	CO4
	c.	Compute the value of $\int_{0.2}^{1.4} (\sin x - \log x + e^x) dx$ using Simpson's $\frac{3}{8}$ rule taking six parts.	6	L3	co.
		OR			
Q.8	a.	Using Newton-Raphson method compute the real root of the equation $x \sin x + \cos x = 0$ near $x = \pi$, correct to four decimal places.	10	L2	CO
	b.	If $y(0) = -12$, $y(1) = 0$, $y(3) = 6$ and $y(4) = 12$, find the Lagrange's interpolation polynomial and estimate $y(2)$.	7	L2	CO
	c.	Evaluate $\int_{0}^{3} \frac{dx}{4x+5}$ using Trapezoidal rule by taking 7 ordinates.	6	L3	CO
		Module – 5			
Q.9	a.	Employ Taylor's series method to obtain $y(0.1)$ for $\frac{dy}{dx} = 2y + 3e^x$, $y(0) = 0$ considering upto 4^{th} degree terms.) 7	7 L	2 CO
	b		n	7 L	3 CC

1			Bl	S201	
	c.	Solve $\frac{dy}{dx} = 2e^x - y$, $y(0) = 2$, $y(0.1) = 2.010$, $y(0.2) = 2.040$, $y(0.3) = 2.090$, find $y(0.4)$ using Milne's method.	6	L2	CO4
		OR			
Q.10	a.	Given $\frac{dy}{dx} = x + \sqrt{y} $, $y(0) = 1$. Compute $y(0.4)$ with $h = 0.2$ using Euler's modified method. Perform two modifications in each stage.	7	L2	CO4
	b.	Apply Milne's predictor-corrector formulae to compute $y(4.5)$, given that $5x \frac{dy}{dx} = 2 - y^2$ and $\begin{array}{ c c c c c c c c c c c c c c c c c c c$	7	L2	CO
	c.	Using modern mathematical tools, write the code to find the solution of $\frac{dy}{dx} = x - y^2$ at $y(0.2)$. Given that $y(0) = 1$ by Runge-Kutta 4 th order method. (Take $h = 0.2$)	6	L3	COS

* * * * *

of the properties of the properties of the said and a said and a said a

First Semester B.E./B.Tech. Degree Examination, June/July 2023 Mathematics-I for CSE Stream

Time: 3 hrs.

CHARCE CHARCE CONTRACTOR OF THE CONTRACT OF TH

Max. Marks: 100

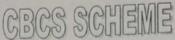
Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.

2. VTU Formula Hand Book is permitted.

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

150		Mahula 1	M	L	C
	, , ,	Module – 1	06	L2	CO1
Q.1	a.	With usual notations prove that			
		$tan\phi = r \frac{d\theta}{dr}$			
		dr a n n n n n n n	07	L2	CO1
	b.	Find the angle between the curves $r^n = a^n \cos \theta$ and $r^n = b^n \sin \theta$	07	L3	CO1
	c.	Find the radius of curvature for	0,	-	100
		$\sqrt{x} + \sqrt{y} = \sqrt{a}$ at $\begin{bmatrix} a/4, a/4 \end{bmatrix}$			1
		OR			-
0.2		With usual notations prove that	07	L2	COI
Q.2	a.	2.717			
		$\rho = \frac{(1+y_1^2)^{3/2}}{1-(1+y_1^2)^{3/2}}$		-	
	100	У ₂	08	L2	CO1
	b.	Obtain pedal equation for the curve $r^n = a^n \cos n\theta$	00	Lis	co.
			05	L3	CO5
	c.	Using modern mathematical tool write a program/code to plot the curve	05	Lo	COS
		$r = 2 \cos 2\theta $			
		Module – 2	100	Y 2	CO2
Q.3	a.	Expand Leg(cos x) by Maclaurin's series upto term containing x ⁶	06	L2	CO2
			-		003
		$(x \ v \ z)$. $\partial u \ \partial u \ \partial u$	07	L2	CO2
	b.	If $u = f\left(\frac{x}{v}, \frac{y}{z}, \frac{z}{x}\right)$, show that $x\frac{\partial u}{\partial x} + y\frac{\partial u}{\partial y} + z\frac{\partial u}{\partial z} = 0$	10 8		
		Find the extreme values of the function $x^3 + y^3 - 3x - 12y + 20$	07	L3	CO2
	c.	Find the extreme values of the function x + y = 3x + 12y + 20			
	1	OR			
		1. (a x + 5 x + a x + d x) 1 x			-
Q.4	a.	Evaluate $\lim_{x \to 0} \left(\frac{a^x + b^x + c^x + d^x}{4} \right)^{1/x}$	07	L2	CO3
		$x \to 0$ (4)	100		
1000		yz zx xy $\partial(u,v,w)$	08	L2	CO3
	b.	If $u = \frac{yz}{x}$, $v = \frac{zx}{y}$, $w = \frac{xy}{z}$, show that $\frac{\partial(u, v, w)}{\partial(x, y, z)} = 4$		1	1 13
		Using modern mathematical tool write a program/code to show that	05	L2	COS
	c.	$u_{xx} + u_{yy} = 0$ give $u = e^x (x \cos y - y \sin y)$	00		000
	1	Module – 3			
	-		1	1	1
Q.5	a.	Solve: $x \frac{dy}{dx} + y = x^3 y^6$	06	L2	CO
	1	ux			
	b.	distribution of the cultion of the cultion of	07	L3	CO
	1 3	where 'a' is parameter.		10	
	c.	Solve: $xyp^2 - (x^2 + y^2)p + xy = 0$	07	7 L2	CO
	HE E	OR			

Q.6	a.	Solve $(x^2 + y^3 + 6x)dx + y^2x dy = 0$	06	L2	CO3
Q.u	b.	Find the general and singular solutions of $xp^2 + xp - yp + 1 - y = 0$	07	L3	CO3
	c.	Find the general solution of the equation $(px - y)(py + x) = 2p$ by reducing into Clairaut's form by taking the substitution $X = x^2$, $Y = y^2$.	07	L2	CO3
		Module – 4			001
Q.7	a.	Find the least positive values of 'x' such that i) $78 + x \equiv 3 \pmod{5}$	06	L2	CO4
	b.	ii) $89 \equiv (x + 3) \pmod{4}$ Find the solution of the linear congruence	07	L2	CO4
	c.	$14x \equiv 12 \pmod{18}$ Encrypt the message STOP using RSA with key (2537, 13) using the prime numbers 43 and 59.	07	L2	CO4
		OR			
Q.8	a.	 i) Find the remainder when 2²³ is divided by 47. ii) Find the last digit in 7¹¹⁸. 	06	L2	CO4
137	b.	Solve the system of linear congruence $x \equiv 2 \pmod{3}$; $x \equiv 3 \pmod{5}$; $x \equiv 2 \pmod{7}$ using Remainder Theorem.	07	L2	CO4
	c.	i) Find the remainder when $175 \times 113 \times 53$ is divided by 11. ii) Solve $x^3 + 2x - 3 \equiv 0 \pmod{9}$	07	L2	CO4
		Module – 5			
Q.9	a.	Find the rank of the matrix	06	L2	CO4
Q.)	4.	A = $\begin{bmatrix} 2 & 3 & -1 & -1 \\ 1 & -1 & -2 & -4 \\ 3 & 1 & 1 & 3 \\ 6 & 3 & 0 & -7 \end{bmatrix}$			
	b.	Test for consistency and solve 2x + 5y + 7z = 52; $2x + y - z = 0$; $x + y + z = 9$.	07	L2	CO4
	c.	Using Rayleigh's power method find the dominant eigen value and the corresponding eigen vector of $\begin{bmatrix} 6 & -2 & 2 \\ -2 & 3 & -1 \\ 2 & -1 & 3 \end{bmatrix}$ by taking $X_0 = \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix}$.	07	L2	CO4
	100		13	1930	
77		OR	-		
Q.10	a.	Solve the system of equations $x + 2y - z = 3$; $3x - y + 2z = 1$; $2x - 2y + 3z = 2$ by using Gauss-Jordan method.	07	L2	CO4
	b.	Solve the system of equations $20x + y - 2z = 17$, $3x + 20y - z = -18$; $2x - 3y + 20z = 25$ by using Gauss – Seidel method.	08	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.	05	L3	COS



	BPHYS102/202
USN	Lune/July2023

First/Second Semester B.E./B.Tech. Degree Examination, June/July2023 **Physics for CSE Stream**

Max. Marks: 100 Time: 3 hrs.

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

2. VTU Formula Hand Book is permitted.

RECEIPER CHARLE CONTRACTOR OF THE STATE OF T

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

4. Constants: Speed of Light $C = 3 \times 10^8 \text{m/s}$, Boltzman const. $K = 1.38 \times 10^{23} \text{J/K}$, Planck's const $h = 6.625 \times 10^{-34} \text{J/S}$, Acceleration due to gravity $g = 9.8 \text{m/s}^2$, 0.1 × 10-31 Kg

	111	mass of electron $m = 9.1 \times 10^{-31} \text{Kg}$	M	L	C
Q.1	a.	Module – 1 Derive an expression for energy density interms of Einstein's coefficients in Laser action.	10	L2	CO1
	b.	Explain types of optical fibers.	6	L2	CO1
	c.	The ratio of population inversion of two energy levels is 1.059×10^{-30} . Find the wavelength of Light emitted by spontaneous emissions at 330K.	4	L3	CO1
-		OR		-	
Q.2	a.	Derive an expression for Numerical aperture in an optical fiber.	8	L2	COI
	b.	Discuss construction and working of semiconductor diode Laser with energy level diagram.	8	L2	COI
	c.	The angle of acceptance of an optical fiber is 30°, when kept in air. Find the angle of acceptance when it is in a medium of refractive index 1.33.	4	L3	CO1
	1	Module – 2			
Q.3	a.	What is wave packet? Give physical significance and properties of wave function? Define group velocity.	8	L2	COI
	b.	State and explain Heisenberg's uncertainty principle. Give its physical significance. Show that electron cannot exist inside the nucleus.	8	L2	CO2
Post	c.	A particle of mass 0.5meV/c² has kinetic energy 100eV. Find its de Broglie wavelength, where 'C' is the velocity of light.	4	L3	CO2
	1	OR			
Q.4	a.	Derive an expression for Schrödinger's Time independent equation one dimensional form.	8	L2	CO2
	b.	Obtain the expression for energy eigen values using Schrodinger's time independent equation.	8	L2	CO2
	c.	In a measurement of position and velocity of an electron moving with a speed of 6×10^5 m/s, calculate highest accuracy with which its position could be determined, if the inherent error in the measurement of its velocity is 0.01% for the speed stated.	100	L3	CO2
	1				
		162			

		Module – 3		1	Tool
Q.5	a.	Explain single qubit gate and multiple qubit gate with example for each.	8	L2	CO
	b.	Discuss CNOT gate and its operation on four different input states.	8	L2	CO2
	c.	Given $A = \begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix}$ prove that $A' = A$.	4	L3	CO2
	1	OR OR			
Q.6	a.	Elucidate the differences between classical computing and Quantum computing.	8	L2	CO2
	b.	Discuss the working of phase gate mentioning its matrix representation and truth table.	8	L2	CO2
	c.	Find the inner product of states 11\rangle and 10\rangle and draw conclusionon the result.	4	L3	CO2
		Module – 4			1 2 2 2
Q.7	a.	Distinguish between Type – I and Type – II super conductors.	8	L2	CO3
	b.	Discuss the effect of temperature and impurity on electrical resistivity of conductors and hence explain for superconductors.	8	L2	CO3
	c.	In a diffraction grating experiment the laser light undergoes second order diffraction, if the distance between screen and grating is 20cm, and average distance of 2^{nd} order spot 2.7cm grating constant 1×10^{-5} m, calculate the wavelength of laser light.	4	L3	CO5
		OR			
Q.8	a.	Explain B.C.S theory of superconductivity.	7	L2	CO1
	b.	Define Fermi energy level. Discuss various energy states by the electrons at $T = O K$ and $T > O K$ on the basis of fermifactor.	8	L2	CO1
	c.	Calculate the acceptance angle and numerical aperture of given optical fiber having diameter of spot is 2.6cm and distance between screen and optical fiber 3.0cm.	5	L2	CO1
		Module – 5			
Q.9	a.	Elucidate the importance of size and scale and weight and strength in animations.	8	L2	CO4
	b.	Discuss modeling probability of proton decay.	8	L2	CO4
	c.	The number of particles emitted per second by a random radioactive source has a Poisson's distribution with $\lambda=4$. Calculate the probability of $P(X=0)$ and $P(X=1)$	4	L3	CO4
		OR	110		
Q.10	a.	Discuss timing in Linear motion, uniform motion, show in and flow out.	8	L2	CO4
	b.	Discuss salient features of Normal distribution using Bell curves.	8	L2	CO4
	c.	A slowing in object in an animation has a first frame distance 0.5m and first slow in frame 0.35m. Calculate the base distance and the number of frames in sequence.	4	L3	CO4

CBCS SCHEME

BESCK104B / BESCKB104 USN

First Semester B.E./B.Tech. Degree Examination, June/July 2023 Introduction to Electrical Engineering

Max. Marks: 100 Time: 3 hrs.

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

2. VTU Formula Hand Book is permitted.

PARABORCE CERTER CERTER PARABORA CONTRACTOR

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

 a. Explain a typical electric power system with the help of a single with labelled diagram. b. Draw and explain the working of Hydel power plant. c. A direct – current circuits comprises two resistors, 'A' of value 25 ohms, 'B' of unknown value, connected in parallel, together with third resistor 'C' of value 5 ohms connected in series with the parallel group. The potential difference across 'C' is found to 90V and total power dissipated in the whole circuit is 4320 watts, Calculate: i) The value of resistor 'B' ii) The voltage applied to the whole circuit. OR 0.2 a. Write a note on conventional and non-conventional energy resources. 	ATA	M	Bist	C
b. Draw and explain the working of Hydel power plant. c. A direct – current circuits comprises two resistors, 'A' of value 25 ohms, 'B' of unknown value, connected in parallel, together with third resistor 'C' of value 5 ohms connected in series with the parallel group. The potential difference across 'C' is found to 90V and total power dissipated in the whole circuit is 4320 watts, Calculate: i) The value of resistor 'B' ii) The voltage applied to the whole circuit. OR Define following terms applied to alternating current wave: i) Average value ii) R.M.S value iii) Form factor iv) Peak factor. b. Establish relation between voltage and current in a.e. circuit containing pure	8	8	L2	CO1
c. A direct – current circuits comprises two resistors, 'A' of value 25 ohms, 'B' of unknown value, connected in parallel, together with third resistor 'C' of value 5 ohms connected in series with the parallel group. The potential difference across 'C' is found to 90V and total power dissipated in the whole circuit is 4320 watts, Calculate: i) The value of resistor 'B' ii) The voltage applied to the whole circuit. OR 2.2 a. Write a note on conventional and non-conventional energy resources. b. State and explain Kirchhoff's laws applicable to die circuits. c. Find the currents I ₁ and I ₂ of Fig Q2(e) Fig Q2(e) Module - 2 1.3 a. Define following terms applied to alternating current wave: i) Average value ii) R.M.S value iii) Form factor iv) Peak factor. b. Establish relation between voltage and current in a.e. circuit containing pure	7	7	L2	CO1
b. State and explain Kirchhoff's laws applicable to die circuits. c. Find the currents I ₁ and I ₂ of Fig Q2(c) Fig Q2(c) Module - 2 3 a. Define following terms applied to alternating current wave: i) Average value ii) R.M.S value iii) Form factor iv) Peak factor. b. Establish relation between voltage and current in a.c. circuit containing pure		5	L3	CO1
b. State and explain Kirchhoff's laws applicable to die circuits. c. Find the currents I ₁ and I ₂ of Fig Q2(c) Fig Q2(c) Module - 2 3 a. Define following terms applied to alternating current wave: i) Average value ii) R.M.S value iii) Form factor iv) Peak factor. b. Establish relation between voltage and current in a.c. circuit containing pure				
b. State and explain Kirchhoff's laws applicable to die circuits. c. Find the currents I ₁ and I ₂ of Fig Q2(e) Fig Q2(e) Module - 2 3 a. Define following terms applied to alternating current wave: i) Average value ii) R.M.S value iii) Form factor iv) Peak factor. b. Establish relation between voltage and current in a.c. circuit containing pure	7	7	L2	CO1
c. Find the currents I ₁ and I ₂ of Fig Q2(c) Sig Q2(c)	7	7	L2	CO1
Fig Q2(c) Module -2 3	6	6	L3	CO1
Fig Q2(c) Module – 2 3 a. Define following terms applied to alternating current wave: i) Average value ii) R.M.S value iii) Form factor iv) Peak factor. b. Establish relation between voltage and current in a.c. circuit containing pure				
 a. Define following terms applied to alternating current wave: i) Average value ii) R.M.S value iii) Form factor iv) Peak factor. b. Establish relation between voltage and current in a.c. circuit containing pure 				
i) Average value ii) R.M.S value iii) Form factor iv) Peak factor. b. Establish relation between voltage and current in a.e. circuit containing pure			1	1 000
b. Establish relation between voltage and current in a.e. circuit containing pure inductance only. Draw the phasor diagram.	6	6	L3	CO
	re 8	8	L3	СО
c. A balanced delta connected load has per phase impedance of (8 + j6) ohm and line voltage is 400V at the load terminals. Find the current p.f and power delivered to the load.	m d	6	L	CO

BESCK104B / BESCKB104

					_
		OR OR			
Q.4	a.	Explain the generation of three phase a.c and list the advantages.	6	L2	CO2
	b.	A coil has inductance of 0.05H and a resistance of 10Ω. It is connected to a sinusoidal 200V, 50Hz supply. Calculate the impedance, current and power consumed.	6	L3	CO2
	c.	A series RLC circuit is composed of 10Ω resistor, one 0.1H inductance and one 50.00 μ F capacitor. A voltage of $v = 141.4$ Sin $100\pi t$ is impressed upon the circuit. i) Find the current ii) Calculate V_R , V_L , and V_C iii) Active power iv) Apparent power.	8	L3	CO2
-	-	Module – 3			
Q.5	a.	Derive E.M.F equation of the D.C generator.	6	L3	CO3
	b.	Explain the characteristics of D.C shunt motor.	7	L2	CO3
	c.	A Shunt generator supplies 195A at 220V Armature resistance = 0.02Ω , shunt field resistance is 44Ω , find the e,m,f generated.	7	L3	CO3
		OR			
Q.6	a.	Derive torque equation of the d.c. motor.	6	L3	CO3
	b.	An 8-pole lap wound d.c. Generator armature rotated at 350rpm is required to generate 260V. The useful magnetic flux per pole is 0.05wb. Find the total number of conductors.	7	L3	CO3
	c.	A 6-pole lap wound shunt motor has 500 conductors. The armature and field resistances are 0.05Ω and 25Ω respectively. Find the speed of motor it takes 120A from a d.c. supply of 100V. Flux per pole is 20 mwb.	7	L3	CO3
		Module – 4			
Q.7	a.	Describe the operation of a single phase transformer, explaining clearly the functions of the different parts.	7	L2	CO4
	b.	A 100KVA, 6600/440V, 50Hz single phase transformer has 80 turns on the low voltage winding. Calculate i) the maximum flux in the core ii) the number of turns on the high voltage winding iii) the current in each winding iv) voltage per turn.	7	L3	CO4
	c.	A 3-phase, 6-pole, 50Hz induction motor has a slip of 1% at no load, and 3% at full load. Determine: i) Synchronous speed ii) No-load speed iii) Full load speed.	6	L3	CO4
1		OR			
8.0	a.	Explain how rotating magnetic field is producing in the three phase induction motor.	7	L2	CO4
	b.	A 500KVA transformer has an iron loss of 700 w and a full load copper loss of 1800W. Calculate: i) Efficiency at full load, 0.8p.f lagging ii) Efficiency at half load, UPF.	7	L3	CO
-		2 of 2		1	1 22 3

BESCK104B / BESCKB104

	c.	A 4-pole, 3-phase induction motor operates from a supply whose frequency is 50Hz. Calculate: i) Speed at which magnetic field is rotating ii) Speed of the rotor when its slip is 0.04	6	L3	CO4
		Module – 5			
Q.9	a.	With neat wiring diagram and truth table explain three way control of lamp.	7	L2	CO5
	b.	In a residential house, the following loads are connected: i) Six lamps of 40w each, switched on for 5 hours a day ii) Two fans of 60w each, switched on for 12 hours a day iii) One 1000w heater working for 2 hours per day iv) One refrigerator of 250w working for 10 hours per day. If each unit of energy costs Rs. 6.50, what will be the total cost in the month of April?	7	L3	COS
	c.	What is electric shock? List the preventive measures against the shock.	6	L2	CO5
	-	OR			
Q.10	a.	What is earthing? With neat diagram, explain any one type of earthing.	7	L2	CO5
	b.	Explain working principle of Fuse and miniature circuit breaker.	7	L2	CO5
	c.	What are the desirable characteristics of a tariff and explain two part tariff.	6	L2	CO5

* * * * *

CBCS SCHEME

	-				
TICAL	1				
USN					

INCINATIONAL CONTRACTOR OF THE STANDARD OF THE

BPOPS103/203

First/Second Semester B.E./B.Tech. Degree Examination, June/July 2023 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.	I a de la communicación destail	10	L2	CO1
	b.		10	L2	COI
		OR			000
Q.2	a.	Explain the following programming paradigms. i) Procedural Programming ii) Structured Programming iii) Object Oriented Programming.	10	L.2	CO2
	b.	Give the illustrative examples.	10	L2	CO2
		Module – 2			000
Q.3	a.	Explain any five types of operators in C language with the illustrative examples.	10	L2	CO2
	b.	Write a C program to find the roots of quadratic equation by accepting the coefficients. Print appropriate messages.	10	L3	CO2
111		OR OR			
Q.4	a.	What are iterative statements? Explain three types of iterative statements with their syntax.	10	L2	CO2
	b.	Write a program to print the following pattern. 1 1 2 1 2 3 1 2 3 4	10	L3	CO2
		Module – 3			
2.5	a.	Explain the syntax of function declaration and function definition with example.	06	L2	CO2
	b.	Write a C program to swap two numbers using call by reference method.	06	L3	CO2
	c.	Describe different types of storage classes with examples.	08	L2	CO
		OR			
2.6	a.	What is an array? Explain how arrays are declared and initialized with example.	08	L2	CO
	b.	Write a C program to transpose a 3×3 matrix.	00	110	CO.
	Maria	List applications of arrays.	08	L3	

		Module – 4			
Q.7	a.	Write a C program to convert characters of a string into upper case without using built-in function.	10	L3	СОЗ
	b.	Discuss the working of the following string manipulation functions with suitable examples. i) stremp ii) strlen iii) strepy iv) streat v) stremp	10	L2	CO3
		OR			
Q.8	a.	Define Pointer. Explain the declaration of a pointer variable with an example.	05	L2	CO2,
	b.	Mention the applications of pointers.	05	L2	CO4
	c.	Develop a C program to compute the sum, mean and standard deviation of all elements of an array using pointers.	10	L3	CO3,
		Module – 5			
Q.9	a.	What is structure? Explain the declaration of a structure with an example.	06	L2	CO4
He H	b.	Differentiate between Structures and Unions.	06	L3	CO4
	c.	Develop a C program to read and display the information of all the students in the class.	08	L3	CO4
1 74 -		OR			
Q.10	a.	Define Enumerated datatype. Explain the declaration and access of enumerated datatypes with a code in C.	06	L2	CO2
	b.	Explain the process of opening a file in C.	06	L2	CO2
	c.	Write a C program to demonstrate fwrite() function.	08	L3	CO2

2 of 2

CBCS SCHEME

USN			
		_	 ina

BETCK205E/E205

Second Semester B.E./B.Tech. Degree Examination, June/July 2023 Renewable Energy Sources

Time: 3 hrs.

Max. Marks: 100

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

Q.1 a. List and explain principles of Renewable Energy b. Explain advantages of Renewable Energy Renewable Energy. c. Write short note on Geothermal Energy. OR Q.2 a. Write short note on Geothermal Energy. b. Describe the process of production of synthetic c. Define Internet of Energy (IOE) and also list in Module - 2 Q.3 a. Define the terms: i) Altitude angle ii) In iii) Zenith angle iv) Solar Azimuth angle vi) Declination angle vii) Hour angle. b. With neat sketch, explain the function of m plate collector. c. Calculate the angle made by beam radiation ver collector on Dec 1st at 9.00 am, solar time for	crude oil from oil shale. 7 sident angle 7	L2 L2 L2 L2 L2 L12 L12	CO1 CO1 CO1 CO1 CO1
b. Explain advantages of Renewable Energy Renewable Energy. c. Write short note on Geothermal Energy. OR Q.2 a. Write short note on Geothermal Energy. b. Describe the process of production of synthetic c. Define Internet of Energy (IOE) and also list in Module - 2 Q.3 a. Define the terms: i) Altitude angle ii) In iii) Zenith angle iv) Solar Azimuth angle vi) Declination angle vii) Hour angle. b. With neat sketch, explain the function of m plate collector. c. Calculate the angle made by beam radiation was collector.	crude oil from oil shale. 7 sident angle 7	L2 L2 L2	CO1
c. Write short note on Geothermal Energy. OR Q.2 a. Write short note on Geothermal Energy. b. Describe the process of production of synthetic c. Define Internet of Energy (IOE) and also list in Module - 2 Q.3 a. Define the terms: i) Altitude angle ii) In iii) Zenith angle iv) Solar Azimuth angle vi) Declination angle vii) Hour angle. b. With neat sketch, explain the function of m plate collector. c. Calculate the angle made by beam radiation versule and the selector of Dec. 1st at 9.00 am solar time for	crude oil from oil shale. respectively. respectiv	L2 L2 L2	CO1
c. Write short note on Geothermal Energy. OR Q.2 a. Write short note on Geothermal Energy. b. Describe the process of production of synthetic c. Define Internet of Energy (IOE) and also list in Module - 2 Q.3 a. Define the terms: i) Altitude angle ii) In iii) Zenith angle iv) Solar Azimuth angle vi) Declination angle vii) Hour angle. b. With neat sketch, explain the function of m plate collector. c. Calculate the angle made by beam radiation of a callector on Dec. 1st at 9.00 am solar time for	crude oil from oil shale. 7 s benefits and applications. 7	L2 L2 L2	CO1
Describe the process of production of synthetic C. Define Internet of Energy (IOE) and also list in Module - 2 Q.3 a. Define the terms: i) Altitude angle ii) In iii) Zenith angle iv) Solar Azimuth angle vi) Declination angle vii) Hour angle. b. With neat sketch, explain the function of m plate collector. c. Calculate the angle made by beam radiation versule angle and solar time for a callector and Dec. 1st at 9.00 am, solar time for a callector and Dec. 1st at 9.00 am, solar time for a callector.	s benefits and applications. 7 sident angle 7	L2	CO1
b. Describe the process of production of synthetic c. Define Internet of Energy (IOE) and also list in Module - 2 Q.3 a. Define the terms: i) Altitude angle ii) In iii) Zenith angle iv) Solar Azimuth angle vi) Declination angle vii) Hour angle. b. With neat sketch, explain the function of m plate collector. c. Calculate the angle made by beam radiation versulted to a pole of the second	s benefits and applications. 7 sident angle 7	L2	CO1
Define Internet of Energy (IOE) and also list in Module - 2 Q.3 a. Define the terms: i) Altitude angle ii) In iii) Zenith angle iv) Solar Azimuth angle vi) Declination angle vii) Hour angle. b. With neat sketch, explain the function of m plate collector. c. Calculate the angle made by beam radiation of angle and also list in	s benefits and applications. 7	L2	CO1
Q.3 a. Define the terms: i) Altitude angle ii) In iii) Zenith angle iv) Solar Azimuth angle vi) Declination angle vii) Hour angle. b. With neat sketch, explain the function of m plate collector. c. Calculate the angle made by beam radiation versulted to a pollector on Dec. 1st at 9.00 am solar time for	sident angle 7		
 a. Define the terms: i) Altitude angle ii) In iii) Zenith angle iv) Solar Azimuth angle vi) Declination angle vii) Hour angle. b. With neat sketch, explain the function of m plate collector. c. Calculate the angle made by beam radiation value to the angle made by beam radiation of m plate to the angle made by beam radiation o	ident angle	L1	CO2
 Q.3 a. Define the terms: i) Altitude angle ii) In iii) Zenith angle iv) Solar Azimuth angle vi) Declination angle vii) Hour angle. b. With neat sketch, explain the function of m plate collector. c. Calculate the angle made by beam radiation value to the angle made by the angle made by beam radiation value to the angle made by be	ident angle	LI	CO2
c. Calculate the angle made by beam radiation versions on Dec. 1st at 9.00 am, solar time for			
action on Dec 1st at 9.00 am solar time to	in components of Solar flat 7	L2	CO2
collector is tilted at an angle of latitude plus pointing drive south.	a location at 28 33 N. The	L3	CO2
OR	0		
Q.4 a. Explain Beam and diffuse radiation with neat	ketch. 7	L2	CO2
b. Briefly explain Attenuation of beam radiation.	6	L3	CO2
c. Explain working principle of Pyrheliometer, v	ith neat sketch.	L2	CO2
Module - 3			
Q.5 a. Derive an expression for wind power and a traversing a wind rotor.	so discuss the conditions in 7	L3	CO3
b. Explain basic components of wind energy con	version system. 7	L2	CO3
e. Explain the process of photosynthesis in bio necessary conditions for photosynthesis.	mass production and also list 6	L2	CO3
1 of 2			

		ВЕТС	CK20	05E/	E205
		OR			
Q.6	a.	Explain Site selection considerations to install wind machine.	7	L2	CO3
	b.	With neat sketch, explain working principle of Savonious rotor.	6	L2	CO3
	c.	Explain construction and operation of Janta Biogas Plant.	7	L2	CO3
	-	Module – 4			
Q.7	a.	Briefly explain Single basin tidal power plant.	6	L2	CO4
	b.	Explain working principle of closed cycle OTEC system.	7	L2	CO4
	c.	List advantages and limitations of Wave energy.	7	L2	CO4
		OR			
Q.8	a.	With a neat sketch, explain Double basin tidal system.	7	L2	CO4
	b.	Explain Claude cycle OTEC system.	7	L2	CO4
	c.	Write a note on Energy utilization in OTEC.	6	L2	CO4
		Module – 5			
Q.9	a.	Explain working principle of Alkaline fuel cell, with a neat diagram.	10	L2	C05
	b.	Explain Electrolytic production used for hydrogen generation showing chemical reactions undergoing.	10	L2	CO5
		OR			
Q.10	a.	Explain working principle of Molten Carbonate fuel cell.	10	L2	CO5
FI	b.	Explain methods of Storing hydrogen energy.	10	L2	COS

			 	 	 -	-
USN	,					

BETCKF205/BETCK205F

Second Semester B.E/B.Tech. Degree Examination, June/July 2023 Waste Management

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.

		2. M: Marks, L: Bloom's level, C: Course outcomes.	M	L	C
		Module - 1 Sthe golid waste	10	L2	CO1
1	2	With a neat schematic diagram, explain the functional elements of the solid waste			
	a.	management c 114 weste	10	L2	CO1
	1	management. Define the term solid waste. Explain the classification and sources of solid waste.	10		
	Ь.	Define the term sold waste. 2.7			
		OR	10	12	CO1
		Write a note on ESSWM [Environmentally Sound Solid Waste Management]	10	L2	COI
2	a.	Write a note on ESSWIN Environmentary			COL
		and explain factors affecting solid waste management.	10	L2	CO1
	b.	What is e-waste? Explain Indian and global scenario of e-waste.			
		Module - 2	10	L3	CO1
3	a.	Briefly explain in detail chemical and physical characteristics of solid waste.	10	L3	CO2
3	b.	Briefly explain in detail chemical and physical characters. Explain in detail the purpose and functions WSA [Waste Stream Assessment].	10		
	U.	Explain in detail in a			
_		OR OR	1.0	1 7 2	COI
		Explain any one case study results from an Indian city on solid waste	10	L3	COI
4	a.			1	
		management/waste composition. Comparatively asses waste generation and composition of solid waste in	10	L3	COI
	b.	Comparatively asses waste generation and composition		1	
		developed and developing nation.			
		Module - 3	10	L3	CO
5	a.	List and explain the important factors considered for site location in design of	10		1
5			1 100000	L3	CO
	h	transfer station. Discuss in detail collection and storage containers of solid waste management.	10	LIS	Co.
	b.	Discuss in detail control			1
		OR			1
		List and explain site selection factors for solid waste disposal site and any one	10	L3	CO
6	a.	List and explain site selection factors for solid waste disposition			
	1	sanitary landfill method.	10	L3	CO
	b.	Write a short note on:			
		i) Leachate and its formation			3
	4	ii) Landfill gas emission control.		1	
	4		1		
-	-	Module – 4		1-	1 ~~
-	10	Explain the following process techniques:	10	L3	CO
7	a.	i) Mechanical volume reduction		10	
	1	1) Mechanical visita reduction			
	1	ii) Mechanical size reduction.	10	L3	CC
	b.	Explain briefly components of separation techniques along with classification.	10		
			1	1	31 30
	1			1	

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

BETCKF205/BETCK205F

		OR OR			
8	a.	Explain in detail commonly recycled materials and process.	10	L3	CO3
	b.	Apply the concept of SWM for monitoring and evaluation of source reduction.	10	L3	CO3
		Module – 5			
9	a.	Define Hazardous waste and classification of hazardous waste treatment.	10	L3	CO4
	ь.	Explain physical and thermal treatment methods of hazardous waste treatment.	10	L3	CO4
		OR			1
10	a.	Apply the concept of pollution prevention and waste minimization for any industry.	10	L3	CO4
	b.	Explain the importance and advantages of E-waste recycling along with the examples.	10	L3	CO4

		CBCS SI	SHEWIS	BIDTK158/258			
USI			Question P	aper Version : A			
	t/Second Semes	ster B.E./B.Te	ch. Degree Examination of Design Thinkir	on, June/July 202			
Time	e: 1 hrs.]			Max. Marks: 50			
		INSTRUCTIO	NS TO THE CANDIDA	TES			
1.	Answer all the fill	fty anostions carl	n question carries one mark				
2.			writing / darkening the circ				
3.			g your answer, darken th				
			ion number on the OMR s				
4.							
5.	the OMD chants are strictly						
-11	prohibited.						
1.	To empathize, one a) Observe c) Listen	has to	b) Engage d) All of these				
		rations is the most	compelling type of story.				
2.	a) Aural	telling is the most	b) Visual				
	c) Textual		d) All of these				
3.	Which of the follow a) Embrace experin b) Human centric d c) Profit centric d) Pattern identifica	nentation lesign	not considered for design this	nking?			
4.	Which of the follow a) Maps c) Stories	ving are not tools o	of visualization? b) Images d) Videos				
5.	What happens in the a) You conduct a web) You allow consuct o) You engage in ind) You test product	ritten test of your comers to test a production ternal testing with	design team, uct or service, employees,				
6.	Collecting design. a) Pictures c) Feedback	is an importan	t portion of testing a prototy b) Money d) Emails	ype in the test stage of			

Ver-A-10f6

7.	Process Innovation refers to a) The development of a new service b) The development of a new product c) The implementation of new or improved d) The development of new product or serv	
8.	What is the first step in The Design Thinking a) Define e) Prototype	ng Process? b) Ideate d) Empathize
9.	After you define the problem, the next step a) Test c) Ideate	is to b) Prototype d) Empathize
10.	Mind maps are used to ideas. a) Generate c) Structure	b) Vîsualize d) All of these
11.	Which of these are not components of a min a) Branches e) Central idea	nd map? b) Arrows d) All of these
12.	is used with the objective of ider to articulate. a) Mind mapping b) Experience mapping c) Story telling d) Rapid concept development	ntifying needs that customers are often unable
13.	Journey mapping maps which phase of activa) Before a service c) After a service	wity of service for a customer? b) During a service d) All of these
14.	A prototype is a simple experimental model a) Test ideas c) Both of these	of a proposed solution used to b) Validate ideas d) None of these
15.	 A Hypothesis is	
16.	Which of these should be completed before a) Do some research b) Try something c) Reflect on your solution d) Define the problem	you build something?

		BID1K158/258
17	What is the usual order of problem a) Try, Reflect, Prepare, Define b) Prepare, Try, Reflect, Define c) Try and Reflect d) Define, Prepare, Try, Reflect	solving process?
18.	Which step of the problem solving my idea? a) Define c) Try	b) Prepare d) Reflect
19.		
20.	Design thinking typically helps ina) Innovation b) Data analytics c) Financial planning d) Operational Efficiency	
21.	Which of the following well known solution? a) McKinsey and Co. c) Bain and Co.	b) BCG d) All of these
22.	During which step of the design proca) Identify a problem or need. b) Design a solution or product c) Evaluate the solution or product d) Implement the design	ess, do you test the solution or product?
23.	A company wants to build a new ty moon. What should the company do f a) Evaluate the design c) Test the prototype	ype of spaceship for transporting astronauts to the first? b) Build a model d) Identify needs
	An engineer has designed and built What is the next step the engineer sho a) Test the working prototype b) Make sketches of the prototype c) Evaluate the design for envision d) Collect and analyze the test results	a prototype to improve the brake system of a car, uld take in the process?
-	Learning Launches are designed to test of a potential new growth initiative in a) True 5) False	st the key underlying value-generating assumptions the market place.

c) Cannot be saidd) None of these

26	. A case study is
	a) A research strategy
	b) An empirical inquiry
	c) a descriptive and exploratory analysis
	d) All of these
27	. MVP stands for
4.7	a) Minimum Viable Product
	b) Maximum Viable Product
	e) Most Viable Product
	d) None of these
28.	ported the same
	a) Empathy b) Prototype
	e) Define d) Ideate
29.	The purpose of MVP is not
	a) Be able to test a product hypothesis with maximum resources.
	b) Accelerate learning
	c) Reduced wasted engineering hours
	d) Get the product to early customers as soon as possible.
30.	The three 'I's of design thinking to and 's to t
20.	The three 'I's of design thinking do not include. a) Interest
	b) Implementation
	c) Inspiration
	d) Ideation
31.	Collaborative team work is essential in design thinking for
	a) Equal importance to all members
	b) Solving multifaceted problems e) Unbiased selection of ideas
	d) Better failure management
	or beder farme management
32.	Frank Robinson defined and coined the term
	a) Design thinking
	b) Mind mapping c) MVP
	d) Hypothesis
	diffypodiesis
33.	User persons are created during which phase of design process?
	ay wengn mage
	b) Discover stage
	c) Develop stage
	d) none of these
34.	was IDFO's first expression of
	was IDEO's first expression of design thinking.
	b) Deep-Dive
	c) Deep-Structure
	d) Study-Dive

35.	 Human centric design was reinterpreted at a) Hear. Create. Deliver b) Hear. Create. Design c) Hold. Create. Deliver d) Hear. Complete. Deliver 	s an acronym to mean
36.	The ultimate goal of design thinking is to a) Services b) Products c) Experiences d) All of these	help you design better.
37.	Design thinking typically is a a) Non-linear process b) Linear process c) Cyclic process d) None of these	
38.	is the way to narrow down the a) Convergent thinking b) Divergent thinking c) None of these d) Both of these	thoughts to reach at the final solution.
39.	Design thinking follows a) Waterfall model b) Agile methodology c) Both of these d) None of these	
40.	The goal of the prototype phase is a) To understand what component of your is b) To understand what component of your is c) Both of these d) None of these	
41.	BPM stands for a) Building Product Management b) Business Product Management c) Business Process Management d) Basic Product Management	
42.	Which is not a good interview strategy for ta Encourage the person to talk about experb) Encourage short answers that get right to c) Ask follow-up questions to get more info d) Try to uncover needs people may or may	ience the point rmation
43.	The final step in the design process is to a) Test c) Ideate	b) Define d) Empathize

Ver - A - 5 of 6

BIDTK158/258

	a) Business and society b) Logic and emotion c) Human needs and economic demands d) All of these
45.	helps the design team and client to visualize and handle the design concept. a) Define b) Ideate c) Empathize d) Prototype
16.	In the create phase we do not a) Recognize existing knowledge in the challenge space. b) Recruit participants for the codesign task from a diverse pool of those affected c) Maintain awareness of sensitivities by avoiding judgements d) Encouraging storytelling and expression
17.	Design thinking is also known as a) Adaptable enquiry b) Strategic design thinking e) Transformation by design d) All of these
8.	Which of the following sequences in 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
9.	When defining a problem, your problem statement should include a solution? a) True b) False
0.	A college is redesigning its website. Current students are the main users of the website. Which one of the below elements should definitely be on the website? a) College rules and regulations b) Information on faculty members c) Information about courses d) Alumini details

44. Design thinking is best suited to addressing problems at the intersection of

USN

BETCK105H/BETCKH105

First Semester B.E./B.Tech. Degree Examination, June/July 2023 Introduction to Internet of Things (IoT)

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.

			M	L	C
Q.1	a.	What is IOT? Explain the sequence of technological developments leading	5	L2	CO1
Q.1	a.	to the shaping of the modern IOT.			CO2
	b.	Explain the different Network Topologies with neal diagram.	5	L2	CO2
	c.	With the help of neat block diagram, explain ISO-OSI Layered Network Model.	10	L2	CO2
	1	OR			COL
Q.2	a.	Explain various enablers of IOT and the complex interdependencies among them.	10	L2	COI
	b.	Define: (i) M2M (ii) CPS (iii) IOE (iv) IOP. Brief the differences between IOT & M2M and IOT & WOT.	10	L1	CO1
	1	Module – 2			001
Q.3	a.	Define sensors. Classify the various sensors based on power requirement.	8	L1	COI
V.0	b.	Explain the functional blocks of a typical sensor node in IOT.	8	L2	CO2
	c.	Define Actuators. Explain briefly the actuator types.	4	LI	CO3
	1	OR			
Q.4	a.	What are the major factors influences the choice of sensors in IOT based sensing solutions? Explain briefly.	8	L2	CO2
	b.	Explain the different sensing categories based on the nature of the environment being sensed and the physical sensors.	6	L2	COI
	c.	Explain the different characteristics of actuators.	6	L2	CO1
	1	Module – 3			
Q.5	a.	Classify the IOT processing topologies and explain them briefly.	10	L2	CO2
Q.J	b.	What is processing offloading? Explain the different data offloading methods.	10	L2	CO2
	100	OR	3-5		
Q.6	a.	What are the different data formats found in IOT network traffic streams? Explain in brief.	7	L2	CO2
	b.	Briefly explain the different types of data to be processed based on the urgency of processing.	6	L2	CO2
	c.	Explain the deciding factors for selecting a processor for the design of a sensor node in IOT devices.	7	L.2	CO2
18 -	1	Module – 4			
Q.7	a.	Define cloud computing. What are the advantages of cloud computing?	6	L1	CO1
	b.	What is virtualization? Explain the advantages of virtualization.	7	L2	CO2
	c.	Explain the different types of virtualization.	7	L2	CO2
-	-		-	S	

BETCK105H/BETCKH105

		OR			
Q.8	a.	With a neat block diagram, explain the cloud model.	10	L2	CO2
Ž.0	b. With a neat diagram, explain the components used in an agricultural IOT.		10	L2	CO2
	-	Module – 5			
Q.9	a.	With a neat diagram, explain the architecture of vehicular IOT.	6	L2	CO1
	b.	With a neat diagram, explain the components used in vehicular IOT.	8	L2	CO2
	c.	Explain the advantages of IOT in transportation.	6	L2	CO1
		OR			
Q.10	a.	With a neat diagram, explain the components used in Healthcare IOT.	12	L2	CO2
	b.	Explain the advantages and risk of Healthcare IOT.	8	L2	CO1

	Ouestion Paper Version : A
USN	

First/Second Semester B.E./B.Tech. Degree Examination, June/July 2023 Communicative English

Tim	et l hr.]			[Max. Marks: 50
	INS	STRUCTIONS	TO THE CANDID	ATES
1,	Answer all the fifty qu	uestions, each qu	estion carries one mar	k.
2.	Use only Black ball p	oint pen for writ	ing / darkening the ci	rcles.
3.	For each question, a	fter selecting yo	ur answer, darken t	he appropriate circle
	corresponding to the	same question r	number on the OMR	sheet.
4.	Darkening two circles	for the same que	stion makes the answ	er invalid.
5.	Damaging/overwriting	ng, using white	eners on the OME	sheets are strictly
	prohibited.			
1.	Oral communication is d a) spoken in transitory c) spoken and permanent		en communication as it b) written d) non verbal	is
2.	Which element is the me a) context b)	dium through which sender	ch a message is sent?	d) noise
3.	When colleagues share that a) radial b)	ne official commu informal	nication it is e) horizontal	d) vertical
4.	When the communication a) informal b)	i is in between ma vertical	nagers and workers it is c) horizontal	d) crosswise
5.	Manager providing tips to a) vertically downward c) radial	the team is	b) formal d) vertical	
6.	In communication, the ob a) message b)	servation of a rece feedback	iver response is called c) survey	d) channel
7.	Written diary every day is a) interpersonal b) i	an example of what	nich communication? c) organizational	d) extra personal
3.	The management circulat among all the employees, a) radial b) to	es a memorandum it is a case of pward	regarding new bonus a communication.	and incentive schemes d) crosswise
	What is the type of common a) interpersonal b) in	unication which ta		

BENGK106/206

10.	A rumour in the ci	b) downward	_ communication c) radial	d) horizontal
11.	How many IPAs a a) 46	re there? b) 44	c) 21	d) 26
12.	Do not boasta) for	your wealth. b) of	c) in	d) from
13.	The ship was boun	nd India. b) for	c) of	d) with
14.	I prefer teaa) to	cold drinks. b) from	c) than	d) for
15.	Tick the correct pha) /jhip/	onetic transcription o b)/chi:p		d) //hiip/
16.		onetic transcription o b) /d3juj	fthe word 'Judge', e)/zuij/	d) /zud3/
17.	Tick the correct ph	onetic transcription o b) /ðiz/	f the word 'These'. c) /theez/	d) /diiz/
18.	Tick the correct pha)/chiz/	onetic transcription o b) /t/iiz/	fthe word 'Cheese'. c)/tji:j/	d)/tʃi:z/
19.	Tick the correct pho	onetic transcription of b) /tiich ə/		d)/techrə/
20.		onetic transcription of		d) /t/ə t/ə/
21.	In which of the foll a) cup	owing words any sile b) same	nt letter is present. c) Post	d) pull
2.	In which of the folloa) cupboard	owing words letter P i b) pneumonia	s not is silent e) coup	d) None of these
.3.	Find collective nour a) He	n in the sentence : 'Ho b) Film	e was part of the film cre c) Crew	d) None of these
4.	Find abstract noun i a) Theatre	n: 'The theatre was e b) Darkness	engulfed in darkness*. c) Both A & B	d) None of these
5.	Someone's life histo a) autobiography	b) bibliography	writer	d) story
6.	Person who does no a) Heretic	t believe in the existe b) Fanatic	nce of God: c) Atheist	d) Theist
7.	Tendency to favour a) Favourisms	one's relativesb) Nepotism	c) Expiation	d) Spinster

Ver A - 2 of 4

28.	One who totally abs	tains from drinking b) Teetotaller	c) Pilgrim	d) Stub
29.	What is the emphatica) I	form of pronoun '1'? b) Me	c) Mine	d) Myself
30.	I have my holica) spent	days in Kolkata. (Fill v b) spend		d) spended
31.	Rakum or Sar a) but	ndip will receive you. ((Fill with correct conjunct) and	d) none of these
32.	What is the root wor a) bi	d, in the word 'BILING b) bil	GUAL ² . e) lingual	d) ingual
33.	What is the full form a) Business to Count c) Bank to Customer	er	b) Business to Consu d) Brand to Consume	
34.	What is the full form a) Chief Transmissio c) Chief Technology	n Officer	b) Chief Telecom Off d) Chief Technology	
35.		d form of 'would not'	is? c) wouldn't	d) wouldnt'
36.	Tick the minimal pai a) mug-jug	r with medial sound di b) ship-sheep	fference. c) cab-cap	d) pit-bit
37.	Tick the minimal pai a) loop-loot	r with final sound diffe b) day-they	rrence.	d) pull-pool
38.	She was very fond of a) Wasn't she?	chocolates. (Tick suita b) Do 1?	able Question Tag.) c) Isn't it?	d) Isn't she?
39.		l coffee. (Tick suitable b) Will/would you?		d) Weren't you?
40.	Punctilious. (Tick the a) meticulous	word having closest n b) casual	neaning.) c) Final	d) none of these
41.	Opulence. (Tick the va) poverty	vord having closest me b) penury	eaning.) c) affluence	d) indigence
42.	Mr. Chatterjee is	MLA. Which arti	cle will be suitable to fi	Il this blank? d) None
43.	My brother studies in a) A	b) An	nch article will be suita	ble to fill this blank? d) None of the above
44.	He did not wash the c a) He is not washing t c) He was not washing	ne clomes	t progressive form if the b) He will not be wash d) He has not washed t	c sentence ing the clothes.

BENGK106/206

45.	It has been raining. a) It would rain. c) It should rain.	Choose the Future inde	cfinite form of the sent b) It will have been d) It will rain.	tence. raining.			
46,	b) The train is reach c) The train will reach	n reached at the railway station. Choose the past perfect form of the sentence, rain had reached at the station, rain is reaching at the railway station, rain will reach at the railway station rain reaches at the railway station.					
47.	The gardener had be sentence? a) Present Indefinite c) Past Perfect Conti		b) Past Perfect d) Present Perfect	hich is the tense of the			
48.	The Sun rises in the a) The Sun will have b) The Sun will have c) The Sun will rise i d) The Sun will be ri	n the East.	e Perfect Continuous (
49.	"tf" The sound is pre	sent in b) shin	c) chín	d) tin			
50.	"j" sound is there in a) feet	b) treat	c) soup	d) sheet			
		* * #	* *				

BKSKK107/207 Question Paper Version: A

First/Second Semester B.E/B.Tech. Degree Examination, June/July 2023

ಸಾಂಸ್ಕೃತಿಕ ಕನ್ನಡ - Samskruthika Kannada

(COMMON TO ALL BRANCHES)

1777	9 9	
Time: 1	hrs.	
A IIIIC, I	AAA SEA	

[Max. Marks: 50

ಸೂಚನೆಗಳು

ಎಲ್ಲ ೫೦ ಪ್ರಶ್ನೆಗಳಿಗೂ ಉತ್ತರಿಸಿರಿ. ಪ್ರತಿ ಪ್ರಶ್ನೆಗೆ ಒಂದು ಅಂಕ.

ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಯು.ಎಸ್.ಎನ್ ಸಂಖ್ಯೆ ಹಾಗೂ ಪಶ್ನೆ ಪತ್ರಿಕೆಯ ಶ್ರೇಣಿಯನ್ನು ಅಂದರೆ A. B. C ಅಥವಾ D ಯನ್ನು ತಪ್ಪಿಲ್ಲದಂತೆ ಕಡ್ಡಾಯವಾಗಿ ಗುರುತಿಸುವುದು ಅಭ್ಯರ್ಥಿಯ ಜವಾಬ್ದಾರಿಯಾಗಿರುತ್ತದೆ.

3. ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ನಿಗದಿಪಡಿಸಿರುವ ಸ್ಥಳದಲ್ಲಿ ಭರ್ತಿಮಾಡದೆ ಹಾಗೆಯೇ ಬಿಟ್ಟಲ್ಲಿ ಅಥವಾ ಭರ್ತಿಮಾಡಿದ ಮಾಹಿತಿಯಲ್ಲಿ ಯಾವುದೇ ವ್ಯತ್ಯಾಸವಿದ್ದಲ್ಲಿ ಅಂತಹ ಉತ್ತರ ಪತ್ರಿಕೆಗಳನ್ನು ರದ್ದು ಪಡಿಸಲಾಗುವುದು.

4. ಕೇವಲ ಒಂದು ಉತ್ತರವನ್ನು ಮಾತ್ರ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಗುರುತಿಸತಕ್ಕದ್ದು. ಒಂದೆ ಪ್ರಶ್ನೆಗೆ ಎರಡು ಉತ್ತರವನ್ನು ಗುರುತಿಸುವುದು ಅಮಾನ್ಯ.

5. ಎಲ್ಲಾ ಉತ್ತರಗಳನ್ನು ನಿಮಗೆ ಒದಗಿಸಲಾದ ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯ ಹಾಳೆಯ ಮೇಲೆ ಕಪ್ಪು ಅಥವಾ ನೀಲಿ ಶಾಹಿಯ ಬಾಲ್ಪಾಯಿಂಟ್ ಪೆನ್ನಿನಿಂದ ಗುರುತು ಮಾಡಬೇಕು.

1.	ಕಬ್ಬಿಗರ ಕಾವ್ಯ ಇದರ	ಕರ್ತೃ ಯಾರು?		
	a) ಆಂಡಯ್ಯ	b) ಹಂಪನಾ	c) ಪಂಪ	d) ಬಸವ

2. ವಿಜಯನಗರ ಕಾಲದಲ್ಲಿ ಧರ್ಮಸಮನ್ವಯತೆಯನ್ನು ಕಾಪಾಡಿದ ರಾಜ ಯಾರು?

a) ಕೃಷ್ಣದೇವರಾಯ b) ಬುಕ್ಕರಾಯ c) ದೇವರಾಯ d) ಹಕ್ಕರಾಯ

3. ಕನ್ನಡ ನಾಡಿನ ಶಾಸನಗಳು ಮುಕ್ಕಾಲು ಪಾಲು ಯಾವುದರ ವಿವರಣೆ ಮತ್ತು ಪ್ರಶಸ್ತಿಗೆ ಮೀಸಲಾಗಿದೆ? b) ವೀರ c) ಸಾಹಿತ್ಯ

a) ದಾನ

4. ಸುಮಾರು 18೦೦ ರಲ್ಲಿಯೇ ಕರ್ನಾಟಕ ಏಕೀಕರಣದ ಅಭಿಪ್ರಾಯವನ್ನು ಬ್ರಿಟಿಷ್ ಹಿರಿಯ ಅಧಿಕಾರಿಗಳಿಗೆ ತಿಳಿಸಿದ್ದವರು ಯಾರು?

a) ವಾಲ್ಕರ್ b) ಮಾರ್ಕಕಬ್ಬನ್ e) ಥಾಮಸ್ ಮನ್ರೋ d) ಮೆಕಾಲೆ.

Ver-A-lof6

5.	ಕರ್ನಾಟಕ ಗತವೈಭ a) ಕುವೆಂಪು	ವ ಗ್ರಂಥದ ಲೇಖಕರು ಯಾರು b) ಆಲೂರುವೆಂಕಟರಾಯರ	? o c) ಮಾಸ್ತಿ	d) జి.ఎಸ್. ఎಸ್.
6.	1973 ನವೆಂಬರ್ ۱ ರ a) ಮೈಸೂರು	ರಂದು ಮೈಸೂರು ರಾಜ್ಯಕ್ಕೆ b) ನವಕರ್ನಾಟಕ	ಎಂದು ನಾಮಕರಣ c) ನವಮೈಸೂರು	ಮಾಡಲಾಯಿತು? d) ಕರ್ನಾಟಕ
7.	ಕನ್ನಡಬಾಷೆ ಯಾವ	ಭಾಷಾ ವರ್ಗಕ್ಕೆ ಸೇರಿದೆ?		
	a) ಸಮಿಟಿಕ್	b) ತುರೇನಿಯನ್	c) ದ್ರಾವಿಡ d)	ಇಂಡೋಆರ್ಯನ್
8.	ಎಷ್ಟನೇ ಅನುಚ್ಛೇದರ	ರ ಅನುಸಾರ ಆಯಾ ರಾಜ್ಯಗ <u>ೀ</u>	ಕಲ್ಲಿ ಬಳಕೆಯಾಗುವ ಭಾಷೆಗ [್]	ಳನ್ನೇ ಆಡಳಿತ ಭಾಷೆಯೆಂದ
	ತೀರ್ಮಾನಿಸಲಾಯಿ a) 343		c) 345	d) 346
			10,111, 21,2	
9.		ಯನ್ನು ಲಿಪಿಗಳ ರಾಣಿ ಎಂದು	b) ಮದರ್ ತೆರೆಸಾ	
	a) 求むのとよろ スコロc) よれのといって		d) ಝಾನ್ಸಿ ರಾಣಿ ಲಕ್ಷ್ಮಿ	ೀಬಾಯಿ
10.	ಕರ್ನಾಟಕದ ಆಡಳೀ a) ಇಂಗ್ಲೀಷ		c) ತುಳು	d) ಕೊಂಕಣಿ
11.	ಜೇಡರ ದಾಸಿಮಯ್ಯ	್ಯನ ವಚನಗಳ ಅಂಕಿತ ಯಾವು	ದು?	
	a) ಗುಹೇಶ್ವರ	b) ಕೂಡಲಸಂಗಮದೇವಾ	c)ರಾಮನಾಥ	d) ಚೆನ್ನಮಲ್ಲಿಕಾರ್ಜುನ
12.	ಹುಲಿಗಂಜಿ ಹುತ್ತವ	ಹೊಕ್ಕಡೆ ಏನು ತಿಂಬುದ ಮಾಣ	ಬದೆ?	
	a) ಸರ್ವ	b) ಆನೆ	೦) ಕರ್ಮ	d) ಮೃತ್ಯು
13.	ಕರಿಘನ ಅಂಕುಶ ಕಿ	ರಿದೆನ್ನಬಹುದೆ ಬಾರದಯ್ಯ ವ೭	ತನದ ವಚನಕಾರರು ಯಾರು	?
	a) ಅಕ್ಕಮಹಾದೇ	ದಿ b) ಆಯ್ದಕ್ಕಿ ಲಕ್ಕಮ್ಮ	c) ಆಯ್ದಕ್ಕಿ ಮಾರಯ್ಯ	d) ಬಸವಣ್ಣ
		Ver	-A-2 of 6	

d) ಕನ್ನಡಿ

d) ಯಾವುದು ಅಲ್ಲ.

d) ಶಿವಯೋಗಿ

d) ಗುಡಾಣ

d) ಮುಂಗುಸಿ

d) ಪುರಂದರ ವಿಠಲ

8 /					BKSI
15.	14	#\d\d #m ==	no Andrei Grade and a		
	1 1,		ಾಲರಿಯದೆ ಏನನ್ನು ಬಯ್ಯನ		d)
13		a) osw	b) ಕನ್ನಡಿಯ	c) own w	4) 04
100					
100	15.			ಕ್ಷರ ಲಿಂಗವಾಯಿತ್ತಾದಡು	
100		a) ಮನಸ್ಸು	b) ಕರ್ಮ	೦) ಕಾಯಕ	d) ಕನ್ನ
110	16.	ಹಲವು ಕಾಲ ಕಲ	ಲ್ಲ ನೀರೊಳಗಿದ್ದರೇನು ಬಲು	ನನದು ಈ ಶಿಲೆಯಾಗುವುದೇ?	
470		a) ಅಮೃತ	b) ಅಮರ್ಮ	೦) ವ್ಯರ್ಥ	d) ಯಾ
500					
83	17.	ತಲಣಿಸದಿರು ಕಂ	ದ. ತಾಳು ಮನವೇ ಕೀರ್ತ	ನೆಯ ಕೀರ್ತನಕಾರರು ಯಾರು?	
80		17	9	೦) ಶಿಶುನಾಳ ಶರೀಫರು	
50		4			
200				***	
70	18.		ರು ಕಾಸಿಗೊಂದು ಏನನ್ನು ವ		d) elemen
TO		a) ජාය්ජ	b) ಗಡಿಗೆ	с) കൂർ	d) ಗುಡಾಣ
2					
4	19.	ಪುರಂದರ ದಾಸರ	ರ ವಚನಗಳ ಅಂಕಿತನಾಮ	ಯಾವುದು?	2
9		a) ರಾಮನಾಥ	b) ವಿಠಲ	c) ಗುಹೇಶ್ವರ	d) ಪುರಂದ
23					
33	20	ಕುಣಾಗಕ ನುಡಿ	ಕೆ ನಾಡಲು ಬಳಸುನ ನುಣ	ನ್ನು ಶರೀಫರು ಯಾವುದಕ್ಕೆ ಹೊ	ೀರಿಸಿದಾರೆ?
3	20.	a) ಚೆನ್ನ		c) ರತ್ನ	
2		40		a	
2		20			
2	21.		ಗ್ಗ ಕಾವ್ಯಭಾಗದ ಕವಿ ಯಾಂ		The state of
3		a) ಬಿ.ಎಂ.ಶ್ರೀ	b) ತೀ.ನಂ, ಶ್ರೀ	c) ಜಿ.ಎಸ್. ಎಸ್	d) යිඨස්.
23					
3	22.	ಇರುವೆಗಳು ಕಟ್ಟಿರ	ವ <mark>ಗೂಡು ಯಾವು</mark> ದಕ್ಕೆ ಹುತ್ತ	ವಾಗುವುದು?	
25			b) ಬಾವುಲಿ		d) ಮುಂ
9					
			4	1 2 00	
273				Ver - A - 3 of 6	
A.					
T.					

23.	ಬೇಂದ್ರೆಯವರ ಯಾ	ವ ಕವನ ಸಂಗ್ರಹಕ್ಕೆ	ಜ್ಞಾನಪೀಠ ಪ್ರಶಸ್ತಿ ಬಂದಿದೆ	?	•	
	a) ಮೂಕಜ್ಜಿಯ ಕನಸುಗಳು			b) ನಾಕುತಂತಿ		
	c) ಸಮಗ್ರ ಸಾಹಿತ್ಯ		d) ম	ാ ർತ್ಯ	1	
24.	ಸಾಬಾಣ ಪದದ ಅಥ	ರ್ಗವೇನು?				
	a) ಸಾಬೂನು		c) ಸಂಯಮ	d) ಯಾವುದು ಅಲ್ಲ	5	
25.	ಕಾಲಿಗೆ ಬಿದ್ದವರ ಯಾ	ಾವುದು ತುಳಿಯುತ್ತಲಿಕ	<u>s</u> j?		3	
	a) ಹೆಣ b) ಕಾಂಚಾನ	c) ದುಡ್ಡು	d) ಕುರುಡ ಕಾಂಚಾಣ		
26.	ಕುವೆಂಪುರವರ ಆತ್ಮಕ	ಕಥೆ ಯಾವುದು?				
			c) ಗಿರಿಜನ ಪಯಣ	d) ಯಾವುದು ಅಲ್ಲ		
27.	ಮೋಹಿನಿಗೆ ಮರುಳಾ	ದವರು ಯಾರು?				
	a) ಮಾನವನು	b) ಮಹಿಳೆಯರು	c) ಮೂರ್ಖದಾನ	ವರು d) ಯಾರು ಅಲ್ಲ .		
				R		
28.	ಭಗವಂತ ಮಾನವರಿ	ರಿಗೆ ಕಾಣಿಸಿಕೊಂಡರೆ	. ಮೊದಲು ಅನ್ನದ ರು	ಾಪದಲ್ಲಿ ಕಾಣಿಸಿಕೊಳ್ಳಬೇಕು ಎಂದ)	
	ಹೇಳಿದವರು ಯಾರು?			A		
	a) ಗಾಂಧೀಜಿ	b) ನೆಹರು	c) ವಿಶ್ವೇಶ್ವರಯ್ಯ	(d) ಮೂರ್ತಿರಾವ್		
20	-1-1-1-0-10-1		0.7			
			ನವನ್ನಾಗಿ ಆಚರಿಸಲಾಗುತ್ತ			
	a) ಆರ್ಕಿಮಿಡೆಸ್	b) ನಿಕಲೋ ಚೆಸ	್ಲಾ c) ಬ್ರುನೆಲ್	d) ವಿಶ್ವೇಶ್ವರಯ್ಯ		
9						
	56ನೇ ಕನ್ನಡ ಸಾಹಿತ್ಯ		ನಡೆಯಿತು?			
	a) 1983	b) 1984	c) 1985	d) 1986		
1.	ಬಟ್ಟೆಯ ಮೇಲಿನ ಮುಂ	ತ್ರಣ ಕಲೆಗೆ ಯಾವ ದೆ	ೇಶವು ಮೂಲ ನೆಲೆಯಾಗಿಂ	3 ?		
	a) ಭಾರತ	b) ಇಂಗ್ಲೆಂಡ್	೦) ಪ್ರಾನ್ಸ್	d) ಅಮೇರಿಕಾ		
2. 7	ತಾ. ಕರೀಗೌಡ ಬೀಚನ	ಹಳ್ಳಿ ಅವರ ಕಾದಂಬ	ರಿ ಯಾವುದು?			
a) ಮಳಬಿಲ್ಲು	b) ಮಳೆ	c) ಕಾಮನಬೀ	ಲ್ಲು d) ಮಳೆಕೋಗಿಲೆ		
			Ver – A - 4 of 6			

33.	ಭಾರತದಲ್ಲಿ ಬೇರೆ : ಮಾಡಲಾಗಿದೆ?	ಬೇರೆ ಬಣ್ಣಗಳನ್ನು ನೀಡ	ುವ ಸುಮಾರು ಎಷ್ಟು ಗಿ	ಡಗಳಿವೆ ಎಂದು ಅಂದಾಜು
	a) 200	b) 300	e) 400	d) 500
34.	ಎಷ್ಟು ವರ್ಷಗಳಿಂದ ಭಾ	ಂರತೀಯ ಕರಕುಶಲ ಕಲೆಗ	ಳಿಗೆ ಅಪಾರ ಬೇಡಿಕೆ ಇದೆ?	
	a) ಕ್ರಿ. ಪೂ. 2300	b)	c) පු, ಪೂ. 2500	d) ಕ್ರಿ. ಶ 2500
35.	ಪ್ರಸ್ತುತ ದಿನಗಳಲ್ಲಿ ಇದ	ನನ್ನು ತಯಾರಿಸಲು ಯಂತ್ರ	ಗಳೇ ಇಲ್ಲ.	
		b) ಬುಟ್ಟಿ		d) ಬಿಟ್ಟೆ
26				
36.	ವಸುಧೇಂದ್ರ ಅವರ ಕಾ		9-3	بر بوړون
	a) ಹರಿಚಿತ್ತ	b) ಸತ್ಯ	೦) ಚಿತ್ರ	d) ಹರಿಚಿತ್ತ ಸತ್ಯ
37.	ಗೋಪಣ್ಣ ಮಾಸ್ತರರ ಸ್ಥ	್ಗೀಹಿತನ ಹೆಸರೇನು?		
	a) ಕಾಸಿಂ ಸಾಬರು	b) ಸಾಹೇಬ್	c) ಕರೀಂಖಾನ್	d) ಖಾನ್ ಸಾಹೇಬ್
38.	ಪ್ರಹ್ಲಾದನ ತಾಯಿಯ ಹ	್ರ ಕಸರೇನು?		
	a) ರುದ್ರಮ್ಮ		c) ರುಕ್ಮಿಣಿ	d) ತಾಯಮ್ಮ
39.	ಪ್ರತಿವರ್ಷ ಮೊಹರಂ	ದಿನ ದರ್ಗಾಕ್ಕೆ ಹೋಗಿ	ಯಾವ ದೇವರಿಗೆ ಸೇವೆಸ	ಸಲ್ಲಿಸುವ ಸಂಪ್ರ ದಾಯವನ್ನು
	ಮಾಸ್ತರರು ರೂ ಧಿಸಿಕ <u>ೂ</u>			
	a) ಪೀಲು	b) ಪೀರ್ಲ	c) ಪೀರು	d) ಪೀರ್ರು
40.	ಕಾಸಿಂಸಾಬರ ಮಗನ ಕ	ಕೆಸರೇನು?		
		b) ಇಸ್ಮಾಲ್	c) ಇಮ್ರಾನ್	d) ಇಸ್ಮಾಯಿಲ್
41	ಯುದಾರಿ ಕಡೆಯಲ್ಲಿ			
	ಯುಗಾದಿ ಕಥೆಯಲ್ಲಿ ಬರ a) ರಮ್ಯ			
	a) owy	b) ರಾಧಿಕಾ	c) ರಾವಣ್ಣ -	d)
		V	A 12 100	

42	ರುಕ್ಮಿಣಮ್ಮ ಸತ್ತ ಎಷ್ಟು ವರ್ಷಗಳು ಕಳೆದಿವೆ?		
	a) 10	b) 15	e) 2
43.	ಹಾಡುವಳೆಗೆ ಹಿಂ	ದೆ ಇದ್ದ ಹೆಸರೇನು?	

a) ಸಂಗೀತವುರ b) ಸಂಗೀತವಳ್ಳಿ c) ಸಂಗೀತಹಳ್ಳಿ d) ಸಂಗೀತನಗರ

d) 25

44. ಡಾ. ಹಿ.ಬೆ ಬೋರಲಿಂಗಯ್ಯನವರ ಮಾರ್ಗದರ್ಶಕರು ಯಾರು? a) ಕರಿಯ b) ಕುಪ್ಪಯ್ಯ c) ಕುಪ್ಪಯ ಕರಿಯ d) ಕಾಳ

45. ಮೆಗಾನೆ ಎಂಬ ಪ್ರದೇಶದಲ್ಲಿ ವಾಸವಾಗಿರುವ ಜನಾಂಗ ಯಾವುದು?

- a) භාගය b) භාගය c) භාගය

46. ಹಾಡಿಯ ಯಜಮಾನ ಯಾರು?

- a) ಯಂಕ b) ಯಶು
- c) ಯಶ

d) ಯಂಕು

47. ಯಂಕುವಿನ ಪೂರ್ವಜರು ಯಾವ ಕಡೆಯವರು?

- a) ಗೋವಾ b) ಕರ್ನಾಟಕ c) ಕೇರಳ
- d) ತಮಿಳುನಾಡು

48. ಡಾ. ಹಿ.ಚೆ ಚೋರಲಿಂಗಯ್ಯನವರ ಪ್ರವಾಸ ಕಥನ ಕೃತಿ ಯಾವುದು?

- a) ಗಿರಿಜನ b) ಗಿರಿಜನರು c) ಗಿರಿಜನನಾಡಿಗೆ ಪಯನ d) ಯಾವುದು ಅಲ್ಲ

49. ಮೆಗಾನೆ ಪರ್ವತದ ಎತ್ತರ

- a) 6 ಸಾವಿರ ಅಡಿ b) 5 ಸಾವಿರ ಅಡಿ c) 5 ಕಿ.ಮೀ d) 5 ಅಡಿ

50. ಡಾ. ಹಿ.ಚೆ ಬೋರಲಿಂಗಯ್ಯನವರ ಸ್ನೇಹಿತನ ಹೆಸರೇನು?

- a) ನಿಂಗೇಗೌಡ b) ರಾಮೇಗೌಡ e) ಭದ್ರೇಗೌಡ
- d) ಲಿಂಗೇಗೌದ

Ver - A - 6 of 6

CBCS SCHEME

			В	KBKK107/BKBKK20
US	N N		Questi	on Paper Version : B
Fire	st/Second Seme		ch. Degree Examir ce Kannada	nation, June/July 2023
Tim	e: 1 hr.]			[Max. Marks: 50
		INSTRUCTIO	NS TO THE CAND	IDATES
1.	Answer all the fi	ifty questions, each	question carries one n	nark.
2.	Use only Black	ball point pen for	writing / darkening the	circles.
3.	For each questi	on, after selecting	your answer, darken	the appropriate circle
			on number on the OM	
4.			question makes the ans	
5.				IR sheets are strictly
	prohibited.			and sheets are strictly
1.	What is your name a) ninna hesarenu? c) yaaru niinu?		b) niinu yaaru? d) hesaru yeenu?	
2.	Ravivara means a) Wednesday c) Monday		b) Sunday d) Tuesday	
3.	Don't eat?a) tinnu	b) beeDa	c) tinnabeeDa	d) tinde
4.	Helping verbs "Irua) bande c) baru	-iralla, baru	b) baruve d) baralla	
	How are you?a) hege	b) hegiddiri	c) heegide	d) hegittu
6.	Choose the correct a) Library	English word for the	Kannada word "Grantha	laya".
	a) Elbrary	b) Home	c) Cafe	d) School
	I want this? a) idu beeku c) idu nanage beeku		b) beekidu d) beeku adu	

BKBKK107/BKBKK207

8.	"Good morning Si a) namaste	b) namaskara Saar	c) Sir namaskara	d) VandanegaLu Sa
9.	Translate "hundred a) nooru c) hattu	l" in to kannada?	b) aivattu d) eradu	
10.	"Tomorrow is holica) naaLe raje c) rajadina	day". Translate word in	kannada. b) indu raje d) raje indu	S
11.	Namma gurugaLu. a) Your teacher c) Them teacher		b) Their teacher d) Our teacher	
12.	Indu Kaalejige a) go (hoogu)	b) small (chikka)	c) white (biLi)	d) green (hasiru)
13.	Had your breakfast a) UuTa ayitaa c) UuTa	?	b) tinDi ayitaa d) tinDi	
14.	Change the word fr Ex: - Ondu – Onda a) maaraneya		c) mooraneya	d) mooru
15.	Change the word from Ex: - KuDi – KuDi a) nudi	om as per the model : yoro, nuDi	b) nuDiri	
	c) nuDiye		d) nuDiyiri	
16.	naanua) naaLe	_bengalurige hoguve (* b) ivattu		d) indu
17.	a) ninna nanage l	heLuttiraa (you). b) naaVu	e) niivu	d) nimma
18.	Come fast a) beaga hogu c) beaga baa		b) beaga nade d) beaga bande	
9.	Stand up a) eddu baa c) eddu hoogu		b) eddu nade d) eddu nillu	
	When did you come a) yaavaga bandiri? c) enu bandiri?	?	b) yaake bandiri d) yaake baruviri.	

BKBKK107/BKBKK207

21.	avaru gui	ugaLaa! (Choose the r	ight word).	d) yaava
	a) Enu	b) yaake	c) nimma	u) yaava
22.	avanu nimma	_? b) geLeyana	c) tangina	d) ammana
	a) akkana	b) geleyana		
23.	Krishnanu arjunanige	h Committee	c) geLeya	d) maava
	a) aNNa	b) Saarathi	0,8000	
24.	naaLe niinu manege		c) yaava	d) bara
	a) baa	b) Enu	C) yaava	
25.	nanage Tea		V boosts	d) beaDa
	a) kuDi	b) tinnu	c) bantu	a, occas
26.	Taste		n 1:	d) kahi
	a) baNNa	b) sihi	c) Ruchi	u) kam
27.	"Salty" word in kann	ada,	The state of the s	Dist
	a) taaja	b) uppu	c) Kaara	d) huLi
28.	"clean" meaning in k	annada,	A	D 1 1
	a) Subhra	b) asubhra	c) shucha	d) dark
29.	He is my son			
	a) adu nanna magu		b) avanu nanna maga	
	c) nanna geLeya		d) avanu maga	
30.	yaava Ut			d) indu
	a) nanna	b) namma	c) idu	d) indu
31.				D. D.
	a) Mouse	b) Spouse	c) Home	d) Browse
32.	Choose the suitable l	kannada word for 'easy		
	a) Nasta	b) Ista	c) Kashta	d) sulabha
33.	Choose the correct k	annada word for 'broth		
	a) amma	b) aNNa	c) appa	d) ajja
34.	avanu hu	Duga.		
	a) Ondu	b) yaake	c) OLLeya	d) tumba
35.	niinu means			
	a) you	b) your	e) them	d) they
36.	avaLu			
	a) I	b) We	c) You	d) She

Version B - 3 of 4

BKBKK107/BKBKK207

37	. That, means			
	a) Enu	b) yaavadu	c) adu	d) yaake
20	m1 : 1 1			
38.	. This is house	ha lide healfalle a	3 60 N	As the many
	a) idu Enu	b) idu building	c) idu guDi	d) idu mane
39.	"Good morning" m	icans		
		b) Shubha vagali	c) Shubha rathri	d) Shubha sanje
40.	This is story			
	a) idu paaTha	b) idu kathe	c) idu drama	d) idu kavana
41.	nîmma hesaru			
	a) Enu	b) yaaru	c) yaavdu	d) naavu
		., ,	c) yaavaa	u) naavu
42.	Choose correct Eng	lish letter for the kann	nada word "father".	
	a) amma	b) aNNa	c) appa	d) Chikkappa
12	W. J W			
43.	"Identification" mea		A CONTRACTOR OF THE PARTY OF TH	
	a) mark	b) gurutu	c) chinne	d) land
44.	Who are you? Mean	ne		
	a) yaaru niinu	b) yaaru nimma	c) niinu	4) -::
			c) mind	d) niinu yaaru?
45.	Kaaleju illinda	duura ide?		
	a) heege	b) eshtu	c) idu	d) heenu
46.	Da			, , , , , , , , , , , , , , , , , , , ,
+0.	Do you want rice? N	leans	THE RESERVE OF THE PARTY OF THE	
	u) image outa beaka	b) ninage anna	c) ninage anna beaka	d) aNNa beaka
47.	He is my friend			
	a) ivanu geLeya	A A	b) snehitha	
	c) OLLeya geLeya		d) ivanu nanna geLeya	
10			a) . and hanna geleya	
18.	"All the best" word i		70	
	a) Shubhavaagali	b) VandanegaLu	c) Shubhadina	d) Shubhoodaya
19.	Which is your place?			, omionoodaya
	a) Uuru yaavudu?		COLUMN TO STATE OF THE STATE OF	
	jantau.	b) nimma Uuru yaav	/udu e) nimma Uuru	d) yaavudu Uuru
	What is this?			
	a) adu Enu?	b) idu yaake?	c) idu Enu?	
			c) idd End?	d) adu esTu2

非非非非非