H&S Dept.: K.S.R.M COLLEGE OF ENGINEERING, KADAPA Academic Year (AUTONOMOUS) 2023 - 2024B. Tech Mid Term Examinations June/July 2024 Subject Name: Business Economics and Accounting for Engineers 2025401 Subject Code **Duration: 90 Min** II Marks: 30 Regulation: R20UG Mid Term : Date: 26-06-2024 IV Branch: CE, ME, ECE, AI&ML Semester:

Answer Three Questions choosing One Question from each Part

All Questions carry equal marks

Q. No.		Questi	ons		Marks	BL	Cos
1	What is Market and Explain	r Features of		Markets?	10	L2	CO3
			OR				
2	Explain any six pricing met	hods?			10	L2	CO3
3	Define Accounting? Explai accounting?	10	L2	CO4			
			OR				
4	Journalise the following	transactions	in books of Mr. Kal	yan			81
	1.12.2020 Kalyan comm						
	1.12.2020 Purchased Fu		5,000				
	3.12.2020 Purchase of go	ods	Rs. 6	5,000		_	
	4.12.2020 Cash sales	10	L2&L3	CO4			
	7.12.2020 Commission 1	5,000 400					
	11.12.2020 Deposited int			İ			
	15.12.2020 Sold to Simh						
	22.12.2020 Purchased M						
	24.12.2020 Received from						
	25.12.2020 Paid salaries						
	28.12.2020 Electricity ch	arges		,000			
	31.12.2020 Office rent pa						
5	What is ratio analysis and e	explain its ad		ns?	10	L2	CO5
			OR			,	·
6	From the given balance she	et of X Com	pany Ltd, Calculate th	e following			
	ratios: a) Current Ratio b) (į
			ny Ltd. as on 31-03-20		10	14015	COF
	Liabilities	Amount	Assets	Amount	10	L4&L5	CO5
		Rs. 15,00,000	Diant Machinem	Rs. 8,75,000			
	Equity Share Capital	Plant, Machinery Stock	5,50,000				
	Debentures Creditors	4,00,000 2,00,000	Debtors	5,50,000			
	Outstanding Expenses	1,00,000	Cash in Hand	3,75,000			
	Bank Loan	2,00,000	Prepaid Expenses	50,000			
	Total	24,00,000	Total	24,00,000			

BL - Bloom's Taxonomy Levels

¹⁻ Remembering, 2- Understanding, 3 - Applying, 4 - Analysing, 5 - Evaluating, 6 - Creating

K.S.R.M. College of Engineering, Kadapa

(Autonomous)

Subject:

Marks:

Section:

2001402

: II

: IV

Subject Code

Mid Term

Semester

B. Tech Mid Term Examinations June -2024 Hydraulics & Hydraullic Machinary

30M Regulation:

A and B

CIVIL Dept.: Academic Year 2023 - 2024

Duration: 90 Min

Date: 27-6-2024

R20UG

Q. No	Question (s)	Marks	BL	СО
1.	A jet of water of diameter 50 mm having a velocity of 20 m/s strikes a curved vane which is moving with a velocity of 10 m/s in the direction of jet. The jet leaves the vane at an angle of 60° to the direction of motion of vane at outlet.	10M	L5	CO3
	Determine (i) The force exerted by the jet on the vane in the direction of motion (ii) Work done/sec by the jet			
	(II) Work done/see by the jet		l	
2.	Derive an expression for force exerted by the curved plate is moving in the direction of jet.	10M	L5	CO3
3.	Explain the general layout of hydroelectric power plant with neat sketches?	10M	L2	CO4
	(OR)		E m 2	
4.	A Pelton turbine has a mean bucket speed of 10 m/s with a jet of water flowing at the rate of 700 li/s under a head of 30 m. the buckets deflect the jet through an angle of 160° . Calculate the power given by water to the runner and the hydraulic efficiency of the turbine. Assume $C_V = 0.98$	10M	L5	CO4
5.	The internal and external diameters of the impeller of a centrifugal pump are 200 mm and 400 mm respectively. The pump is running at 1200 rpm. The vane angles of the impeller at inlet and outlet are 20° and 30° respectively. The water enters the impeller radially and velocity of flow is constant. Determine the work done by the impeller per unit weight of water.	10M	L5	CO5
-	(OR)			
6.	Explain the principle and working of a reciprocating pump by neat sketch.	10M	L2	COS

K.S.R.M COLLEGE OF ENGINEERING, KADAPA (AUTONOMOUS)

B. Tech Mid Term Examinations, June / July, 2024

Dept.: Civil Engineering
Academic Year
2023 – 2024

L6 - Creating

Subject Code	:	2001403	Subject Name:	Soil Mechanics	
Mid Term	:	II	Marks: 30	Regulation: R20 UG	Duration: 90 Min
Year	:	II	Semester : IV	Sections : A, & B	Date: 28.06.2024 AN

Q.	No	Question (s)	Marks	Blooms Level	CO
1	a. b.	Develop an expression for vertical stress due to line load? A load 1000 kN acts as a point load at the surface of a soil mass. Estimate the stress at a point 3 m below and 4 m away from the point of the load by Boussinesq's theory. Compare the value with the result from Westergaard's theory. OR	5 5	L3 L3	CO3 CO3
2	a. b.	Explain about the Newmark's influence chart? Mention their uses. A long strip footing of width 2 m carries a load of 400 kN/m. Determine the maximum stress at a depth of 5 m below the center line of the footing	5 5	L2 L5	CO3 CO3
3	a.	What is the effect of compaction on the engineering properties of the	5	L1	CO4
	b.	soil? Describe the difference between standard and modified proctor compaction test.	5	L4	CO4
4	a.	OR The time to reach 60% consolidation is 30 sec for a sample of 1 cm thick tested in the laboratory under condition of double drainage. How many years will the corresponding layer in nature require to reach the same degree of saturation if it is 10 m thick and drainage on one side	5	L4	CO4
	b.	only? In a consolidation test, the void ratio of the specimen which has 1.068 under the effective pressure of 214 kN/m², changed to 0.994 when the pressure was increased to 429 kN/m². Calculate the coefficient of compressibility, coefficient of volume change and compression index.	5	L4	CO4
5	a.	Discuss about the advantages of triaxial shear test over direct shear	5	L4	CO5
	b.	test. A cylindrical specimen of saturated clay, 4.5 cm in diameter, and 9 cm long, is tested in an unconfined compression apparatus. Determine the cohesion if the specimen fails at an axial load of 450 N. The change in length of the specimen at failure is 9 mm.		L5	CO5
. 6		The following table gives data obtained from triaxial compression test conducted under undrained conditions on two specimens of same soil sample. The diameter and height are 40 mm and 80 mm respectively for both samples. Sample No Cell pressure σ_3 (kN/m²) Deviator load at failure (N) Axial compression (mm) Find σ_a and σ_a by (i) analytical method and (ii) graphical method. • L1 – Remembering • L2 – Understanding • L3 –		L5	CO5
		LI - Remembering	Creating	KI.	

• L5 - Evaluating

L4 - Analyzing

Civil Engineering Dept.: K.S.R.M COLLEGE OF ENGINEERING, KADAPA Academic Year (AUTONOMOUS) 2023 - 2024B. Tech Mid Term Examinations, June-2024 Subject Name: Structural Analysis : 2001404 Subject Code **Duration: 90 Minutes** Regulation: R20 UG Marks: 30 Mid Term : II Date: 29.06.2024 Semester : IV Sections : A,B : II Year

O No	Question (s)	Marks	Skills	CO
Q. No	Analyze the frame given below using Slope deflection method and draw BMD 25kN 2m 2m 4m, I 6m,2I 4m_I	10	L4	CO 3
	OR			
2.	Analyze the frame given below using Slope deflection method and draw BMD 25kN 3m 3m 25kN/m 77777	10	L4	CO 3
3.	Analyze the frame shown in figure using moment distribution method. 50kN 1m	10	L5	CO 4
4.	Analyze the continuous beam using Moment distribution method and draw BMD 20kN 30kN 3m 2m 3m 3m 5m 6m	10	L4	СО

5.	A three hinged parabolic arch of span 40m and central rise 8m carries an UDL of 30kN/m over the left half span. Calculate the reactions at the supports and also calculate bending moment, radial shear and normal thrust at a distance of 10m from left support.	10	L5	CO 5
	OR			
6.	A two hinged parabolic arch of spam 60m and central rise 12m subjected to a concentrated load of 80kN at a distance of 15m from left support. Calculate the horizontal thrust, reactions and bending moment at a distance of 10m from left support.	10	L3	CO 5

L1-Remembering; L2-Understanding; L3-Applying; L4- Analyzing; L6-Evaluating; L6 Creating

• .			- TALCONIE ED	INC KADAPA	Dept.:	Civil Engi	
K.S.R.M	CO	LLEGE (OF ENGINEER	RING, KADAPA	A	cademic Ye	ar
		(AU	TONOMOUS)			2023 - 2024	1
B. T	ech		rm Examination	S, June-2024	ing		
Subject Code	:	2001405		Fransportation Engineer Regulation: R20 UG	Duratio	n: 90 Min	
Mid Term	1:	II	Marks: 30	1 0 D		01-07-2024	
	1:	II	Semester : IV	Sections : A & B			
Answer	any	three ques	tions and one que	stion from each section is		- T	

	Answer any three questions and one question from each section	35 1-	Skills	CO
) .	Question (s)	Marks	SKIIIS	
1	Write in detail about Traffic Signals and its advantages and disadvantages	10	L1	CO3
	OR			
2	The average normal flow of traffic on cross roads A and B during design period are 400 and 250 pcu per hour. The saturation flow values on these roads are estimated as 1250 and 1000 pcu per hour respectively. The all red time required for pedestrain crossing is 12 sec. Design two phase traffic signal by websters method.	10	L5	CO3
	a.)What are the components of flexible pavement? explain their functions.	4	L1	CO4
3	b.) Explain about modulus of subgrade reaction, Relative stiffness	6	L1	CO4
	of slab, critical load positions OR			T
4	Calculate the stresses at interior, edge and corner regions of a cement concrete pavement using westergaards stress equations. Using the following data. Wheel load=5100 kg, E=3*10 ⁵ kg/cm ² , pavement thickness=18 cm, poisons ratio of concrete=0.15, k=6 kg/cm ³ , radius of contact	10	L5	CO4
	area=15 cm a) Explain Experimental Procedure about conducting aggregate		L2	CO5
5	b). Write Experimental Procedure for ductility test of bitumen.	5	L2	CO5
	b). Write Experimental Procedure for duetaty OR			
		5	L2	COS
-	a). Write about the construction procedure of WBM road.b)Describe Significance of highway drainage and what are the	5	L2	CO

K.S.R.M	CO	LLEGE	OF ENGINEE	RING, KADAPA	Dept.:	H&S
11011111	-		JTONOMOUS)	KING, KADAI A	Acaden	nic Year
N	Iid '	Term Exa	Term Examinations June/July-2024 2024	24		
Subject Code	:	2024410	Subject: Unive	ersal Human Values		
Mid Term	:	II	Marks: 30	Regulation : R-20	Duration :	90 Min
Year	:	II	Semester : IV	Branch:	Date :02/07	/2024

Answer the following questions. Each question carries Equal marks.

Q. No.	QUESTIONS	Marks	Blooms Level	СО
1	(a)Analyze about uncertainties in risk assessment. (b)List out a few factors to reduce risks.	5 5	L4 L1	CO3 CO3
	OR			
2	(a) Define 'Safety and risk'. (b) What lessons can be learned from Chernobyl nuclear disaster?	5 5	L3 L1	CO3
3	(a) Illustrate the content of value education.(b) Explain briefly 'the process of self-exploration'.	5 5	L1 L2	CO4 CO4
	OR			
4	(a)How can we verify proposals on the basis of our natural acceptance? Explain with example. (b) What is your present vision of a happy and prosperous life?	5	L4 LJ	CO4
5	Elaborate the terms (a) Harmony in society (b) Co-existence with nature	5	L6	CO5
	OR			
6	(a) What is justice and how does it leads to mutual happiness. (b) "Trust is the base of values"- Give answer in detail.	5 5	L6 L1	CO5 CO5

- L1 RememberingL2 Understanding
- L3 Applying
- L4 Analyzing
- L5 EvaluatingL6 Creating

K.S.R.M. College of Engineering, Kadapa (Autonomous)

Dept.: EEE Academic Year

B. Tech Mid Term Examinations June - 2024

2023 - 2024

Course Code	:	2021401	Course:	Speci	al functions ar	nd Complex	x Analysis
Mid Term	:	11	Marks:	30M	Regulation:	R20UG	Duration: 90 Min
Semester	:	IV	Section:				Date: 26th June 2024

Q. No	Question (s)	Marks	BL	со
1.	Discuss the transformation $w = \sin z$.	10M	L6	CO3
	(OR)		L	<u>L.</u>
2.	Verify Cauchy's theorem by integrating e ¹² along the boundary of the tringle with the vertices at the points 1+i, -1+i, and -1-i.	10M	L3	CO4
3.	Evaluate, using Cauchy's Integral Formula $\oint_c^{\frac{1}{2}} \frac{\sin \pi z^2 + \cos \pi z^2}{(z-1)(z-2)} dz$ where c is			
	the circle $ z = 3$.	10M	L5	CO4
	(OR)			
4.	$If F(\xi) = \oint_{C} \frac{4z^{2} + z + 5}{z - \xi} dz, where c is the ellipse (\frac{x}{2})^{2} + (\frac{y}{3})^{2}$ $= 1, find the value of i) F(3.5) ii) F(i), F'(-1), F''(-i).$	10M	L1	CO4
5.	Evaluate $\int_{c} \frac{z^3 dz}{(z-1)^2(z-3)}$ where C is $ z = 2$ by Residue theorem.	10M	L5	CO5
	(OR)		1	
6.	Prove that $\int_0^{2\pi} \frac{d\theta}{a + b \sin \theta} = \frac{2\pi}{\sqrt{a^2 - b^2}} (a > b > 0).$	1014	L5	CO5

K.S.R.N	1 C(DLLEGE	OF ENGIN	EERING, KADAPA	Dept.:	H&S
n a			JTONOMOUS		Acad	emic Year
В. 1	ech	Mid Term	Examination	s June/July 2024	202	3-2024
Subject Code	:	2025402		ne: Fundamentals of Man		
Mid Term	:	П	Marks: 30	Regulation: R20UG	Duration:	
Semester:		IV	* 	Branch: EEE	Date: 27-	06-20-24

Answer Three Questions choosing One Question from each Part All Questions carry equal marks

Q. No.	Questions	Marks	BL	COs
1	What HRP and Explain Human Resource Planning Process?	10	L2	CO3
	OR			
	Explain the following:			I
2	a) Organizational Culture	05	L2	CO3
	b) Organizational Climate	05	L2	CO3
3	Define Leadership? Explain Behavioural Leadership and Situational Leadership?	10	L2	CO4
	OR			
4	What is Motivation? Explain any two Content Motivational Theories?	10	L2	CO4
5	Define Control and Elaborate Steps in Controlling Process?	10	L2	CO5
	OR			
6	Briefly explain Budgetary and Non- Budgetary Controlling techniques?	10	L2	CO5

BL – Bloom's Taxonomy Levels
1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating

K.S.R.M COLLEGE OF ENGINEERING, KADAPA

(AUTONOMOUS)

B.TechMid Term Examinations JUNE 2024

Dept.: EEE
Academic Year
2023-2024

Subject Code	:	2002403	Subject:Induct	tion Motors & Synchro	nous Machines
Mid Term	:	II	Marks: 30	Regulation: R20 UG	Duration: 90 Min
Year	:	II	Semester:IV	Section:A	Date: 28/06/2024

Q. No	il I miles regen des				Marks	Skills	СО				
1	I	voltage re Turn Me		Explain	how regul	lation car	n be deter	mined by	10	Az	CO3
	- Land Charles and Description of the Control of th		THE OWNER OF THE PARTY OF THE P	***************************************	(OR	aproprieta de la composição de la constante de		1	druciniu are area.	
	9	A 15kVA, 400V, 50Hz, 3-Ø alternator (Y connected) in Open Circuit tegave the following data:									
	I	2	2.5	3	3.5	4	4.5	5		1	
2	Eoc	266	334	377	422	450	484	508	10	Е	CO4
	An excitation of 2A gave full-load current on short-circuit. Armature resistance per phase is 1.2Ω . Calculate full-load regulation using Synchronous Impedance method at (i) 0.8 lagging and (ii) 0.8 leading power factor.							A country and a			
3	-				ied for pro nators to t	-		on? Explain	10	Az	CO3
		estidate de la segui de primeiro y Proprincio y Primeiro (de 1900 de 1800 de	ame op de of the case of a course had been been given	ngga ngga dagan man Pagga da manga kan at an ang ang ang		OR		Marketon of the University Marketon Printers of the Confession of	- Andrews - Angele - Andrews - Andrews - Andrews - Andrews - Angele - Angel	· A - 100-100-100-100-100-100-100-100-100-1	Acceptance of the second secon
4	1	_			nous pow		555 14 0655 500	ynchronous	10	Az	CO1
5	1	40 1750	us motor Synchro		_	? Briefly	y discuss	the starting	10	Az	CO2
	and the first of the second			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OR	00000000000000000000000000000000000000		A. A. P. P. G. C. P. C.	1.00 (r) (see 10 10 10 10 10 10 10 10 10 10 10 10 10	
6	factory	OR A Synchronous Motor absorbing 50kW is connected in parallel with factory load of 250kW having a lagging power factor of 0.8. If the combination has a power factor of 0.9 lag, how many leading kVAR are to be supplied by the motor? At what power factor it should work?									CO4

W. C	D 8	1 Callag	o of Engir	oorin	g Kadana		Dept.:	EEE
K.S.R.M. College of Engineering, Kadapa							Academic Year	
В.	Tech	•	lutonomou n Examinat		ıne – 2024		20	23 – 2024
Subject Code	1:	2002404	Subject:	LINEA	R CONTROL SYS	TEMS		
Mid Term	1:	11	Marks:	30M	Regulation:	R20UG	Duration:	
Semester	1:	IV	Section:	1			Date: 29 ^h J	lune 2024

Q. No	Question (s)	Marks	BL	СО
1	Examine the characteristic equation $s^4 + 2s^3 + s^2 + 4s + 2 = 0$ for stability	10M	L4	CO2
	(OR)			
2.	A unity feedback control system has an open loop transfer function $G(s) = \frac{K}{S(S+4)}$. Draw the Root Locus and determine the value of K, if	10M	L4	CO2
	the damping ratio ξ is to be 0.707?			
3.	The open loop transfer function of a system is given by $G(s) = \frac{20}{5(5+1)(1+0.015)}$. Sketch the Bode plot and determine the gain Margin and Phase Margin	10M	L3	CO2
	(OR)			
4.	The open loop transfer function of a system is given by: $G(s) = \frac{40}{(s+4)(s^2+2s+1)}$. Sketch the Polar plot and comment on the stability of	10M	L4	CO1
	the system.	10M	L2	CO4
5.	Explain Design of lag Compensator in frequency domain	TOIAL	JC	004
	(OR)			
6.	Explain Design of lead Compensator in frequency domain	10M	L2	CO4

K.S.R.M COLLEGE OF ENGINEERING, KADAPA

(AUTONOMOUS)

B.Tech Mid Term Examinations June/July 2024

Dept.: EEE
Academic Year
2023 – 2024

		2002405	Subject: Power	Systems-I	
Subject Code	:	2002700		Regulation: R20 UG	Duration: 90 Min
Mid Term	:	II	Marks: 30	Regulation	Date: 01/07/2024
Year	:	II	Semester : IV	Section:	Date: 01/0//2024

ear		Marks	BL	CO
). No	Question (s)	10	L2	CO2
1	Explain the Methods of Improving String Efficiency.			
	OR			
2	An overhead line conductor having a parabolic configuration weighs 1.925 Kg per mt of length. The area of cross section of the conductor is 2.2 cm ² and the ultimate strength is 8000 Kg/cm ² The supports are 600 mts apart having 15 mts difference of levels Calculate the sag from the tailor of the two supports which must be allowed so that the safety factor shall be 5.Assume that ice load is	10	L3	CO3
	1 kg per mt run. Derive the expression for inductor for three phase transposed overhead	10	L2,L3	CO4
3	line.			
4	OR A three phase 50Hz,66KV overhead line conductors are placed in horizontal plane. The conductor diameter is 1.25 cm. If the line length is 100 km, calculate the charging current per phase.	10	L2	CO3
	What is Corona? Explain the factors effecting Corona.	10	L2	CO3
5	What is Corona? Explain the factors effecting			
		10	L2	CO2
6	Write about different types of Underground Cables.			

K.S.R.M COLLEGE OF ENGINEERING, KADAPA Dept.: ME (AUTONOMOUS) Academic Year B.Tech Mid Term Examinations -June, 2024 2023-2024 Subject Code 2021401 Subject: Probability, Statistics And Numerical Methods Mid Term II Marks: 30 Regulation: R20 UG Duration: 90 Min Year II Semester: IV Section: A&B Date: 27-06-2024(AN) Answer all questions: $3 \times 10 = 30 \text{ Marks}$ Q. No Question (s) Marks Skills CO (a)Two samples of sizes 9 and 8 give the sum of squares of deviations from their respective means equal to 160 inches square and 91 inches square respectively. Can these be regarded as drawn from the same 5 normal population? 1 (b) The means of two random samples of sizes 9 and 7 are 196.42 and L4 CO₃ 198.82 respectively. The sums of the squares of the deviations from the mean are 26.94 and 18.73 respectively. Can the samples be considered 5 to have been drawn from the same normal population? OR The following table is given Eye Eye colour in sons Total colour Not light light in Not light 230 148 378 2 10 L4 CO₃ fathers light 251 471 622 Total 381 619 1000 Test whether the colour of the son's eye is associated with that of the fathers. Determine a real root of the equation $x^3 - 2x - 5 = 0$ by regula-falsi 3 10 L5 CO₄ method correct to four decimal places. OR Solve 20x + y - 2x = 17; 2x - 3y + 20z = 25; 3x + 20y - z = -18 by 4 10 L3 CO₄ Gauss Seidel iteration method. The table gives the distances(y) in nautical miles of the visible horizon for the given heights(x) in feet above the earth's surface: 100 150 200 5 250 300 350 400 10 L5 CO₅ 10.63 13.03 15.04 16.81 18.42 19.90 21.27 Evaluate the value of y when (i) x = 160ft (ii) x = 410ft. OR Evaluate the polynomial f(x) by using Lagrange's formula and hence find f(3) for 6 10 L5 CO₅ 0 X 2 1 5 f(x)2 3 12 147

K.S.R.M COLLEGE OF ENGINEERING, KADAPA

(AUTONOMOUS)

B.Tech II Mid Term Examinations, June/July- 2024

Dept.:

Mechanical Engineering

Academic Year

2023 - 2024

	Subject Code	:	2003403	Subject: APPLIEI	THERMODYNAMIC	S
,	Mid Term	:	II	Marks: 30	Regulation: R20UG	Duration: 90 Min
,	Year	:	II	Semester : IV	Section: A & B	Date: 28-06-2024 AN

NOTE: Answer All Questions

Q. N	No.	Question	Marks	BLs	CO
1.		Analyze the stages of combustion in SI engines.	10M	L4	CO2
		(OR)			
2.	(a)	What is delay period and explain the factors that affect the delay period in SI engines	5M	L2	CO2
	(b)	Explain the phenomenon of detonation in CI engines	5M		CO2
3.	(a)	Derive the expression for Rankine cycle efficiency	5M	L5	CO4
	(b)	A simple Rankine cycle works between pressure of 30 bar and 0.04 bar, the initial condition of steam being dry saturated, estimate the cycle efficiency	5M	L5	CO ²
		(OR)			
4.		Explain the methods of increasing the thermal efficiency of a Rankine cycle.	5M	L2	CO ²
5.	(a)	Define the term 'steam nozzle'. Explain various types of nozzles	5M	L2	CO:
	(b)	Explain briefly simple Vapour Compression Refrigeration system	5M	L2	CO
	1	(OR)			
6.	(a)	advantages.	5M	L4	CO
	(b)	Obtain analytically the critical pressure ratio in terms of the index of the expansion	5M	L5	СО

- L1 Remembering
- L2 Understanding
- L3 Applying
- L4 Analyzing
- L5 Evaluating
- L6 Evaluating

	KS		Dept.:	MECH				
	. K.S.R.M. College of Engineering, Kadapa (Autonomous)							
. 1	B. Te		m Examinat		ne- 2024		20)23 – 2024
Subject Code	1:	2003403	Subject:	KINEMATICS OF MACHINES				1
Mid Term	:	II	Marks:	30M	Regulation:	R20UG		
Semester	:	IV	Section:	A and	I B		Date: 29th	June 2024

Q.No	Question (s)	Marks	BL	CO
1.	Locate all the instantaneous centres of the slider crank mechanism as shown in Fig. The lengths of crank OB and connecting rod AB are 100 mm and 400 mm respectively. If the crank rotates clockwise with an angular velocity of 10 rad/s, Determine: 1. Velocity of the slider A, and 2. Angular velocity of the connecting rod AB.	10	L5	CO3
	(OR)			
2.	Give a neat sketch of the straight line motion Hart mechanism. Prove that it produces an exact straight line motion.	10	L5	CO3
3.	A cam operating a knife-edged follower has the following data: (a) Follower moves outwards through 40 mm during 60° of cam rotation. (b) Follower dwells for the next 45°. (c) Follower returns to its original position during next 90°. (d) Follower dwells for the rest of the rotation. The displacement of the follower is to take place with simple harmonic motion during the outward and with Uniform velocity during return stroke. The least radius of the cam is 50 mm. Draw the profile of the cam when the axis of the follower is offset 20mm towards right from the cam axis. If the cam rotates at 300 r.p.m., determine maximum velocity and acceleration of the follower during the outward stroke and the return stroke.	10	L1	CO4
	(OR)			
4.	A cam rotating clockwise with a uniform speed is to give the roller follower of 20 mm diameter with the following motion: (a) Follower to move outwards through a distance of 30 mm during 120° of cam rotation; (b) Follower to dwell for 60° of cam rotation; (c) Follower to return to its initial position during 90° of cam rotation; and (d) Follower to dwell for the remaining 90° of cam rotation. The minimum radius of the cam is 45 mm and the line of stroke of the follower is offset 15 mm from the axis of the cam and the displacement of the follower is to take place with simple harmonic motion on both the outward and return strokes. Draw the cam profile.		L4	CO4
5.(a)	Class that the involute profile satisfies the		L2	
(b)	Define the following (a)Module (b) Addendum	2	L2	CO
	(OR)			
6.	A pinion having 30 teeth drives a gear having 80 teeth. The profile of the gears is involute with 20° pressure angle, 12 mm module and 10 mm addendum. Find the length of path of contact, arc of contact and the contact ratio.	10	L4	CO

K.S.R.M COLLEGE OF ENGINEERING, KADAPA

(AUTONOMOUS)

B.Tech. II Mid Term Examinations, June- 2024

Dept.:

Mechanical Engineering

Academic Year

2023 - 2024

Subject Code	:	2003405	Subject: MACHINE TOOLS								
Mid Term		П	Marks: 30	Regulation: R20UG	Duration: 90 Min						
Year		II	Semester: IV	Section: A & B	Date: 01-07-2024						

NOTE: Answer All Questions

	NOTE. Answer An Questions			
		Marks	BL	CO
1.	Outline the operations performed on a drilling machine and explain any five operations with a neat sketch?	10M	L2	CO3
	(OR)			
2.	Explain the parts of a horizontal boring machine with a neat sketch?	10M	L2	CO3
3.	Analyze the working mechanism of universal dividing head with a neat sketch?	10M	L4	CO4
	(OR)			
4.	How are milling machines classified? Explain the parts of horizontal milling with a neat sketch?	10 M	L2	CO4
5.	Explain the wheel marking system of a grinding wheel as per indian standards?	10M	L2	CO5
	(OR)			
6.	Illustrate about centreless grinders and the feeds that are involved in centreless grinders with a neat sketch?	10M	L2	CO5

Dept.: ECE K.S.R.M COLLEGE OF ENGINEERING, KADAPA Academic Year (AUTONOMOUS) 2023 - 2024 B. Tech Mid Term Examinations April 2024 : 2021403 Subject Name: PROBABILITY THEORY AND STOCHASTIC PROCESSES Subject Code Mid Term Marks: 30 Regulation: R20UG **Duration: 90 Min** : II Section: A,B&C Date:-27-06-2024

Answer any Three Questions choosing One Question from each Unit.

Semester: IV

Q. No	Question (s)	Marks	BL	СО
	UNIT-I			
	a) State & prove central limit theorem for equal		2	CO212.3
	distribution?	5	L2	
1	b) Let $f_{XY}(x, y) = x + y$, for $0 \le x \le 1$, $0 \le y \le 1$			
	= 0, otherwise	-	L3	CO212.3
	Find the conditional density of the following:	5	1	1
	(i) X given Y.		1 1	
	(ii) Y given X.		: [
	OR			000100
	a) Briefly explain about jointly Gaussian random variables.	5	L1	CO212.3
	b) Random variables X and Y have the joint density:	3		
2		***************************************		
	$f_{XY}(x,y) = \frac{1}{24}$; for $0 < x < 6$ and $0 < y < 4$	_ 5	L3	CO212.3
	= 0; elsewhere	t t		
	What is the expected value of the function $g(X,Y) = (X,Y)^2$?	, 		
	UNIT-II	1		
3	a) Define ACF? State and prove the properties of ACF?	. 5	L2	CO212.4
	b) Consider random processes, $X(t) = A \cos(w_1 t + \theta)$ and $Y(t) = B \cos(w_2 t + \emptyset)$, where A, B, w_1, w_2 are constants, while $\theta \& \emptyset$		1	00212.
	are statistically independent random variables uniformly distributed on $(0, 2\pi)$.	5	L4	CO212.4
	Show that x(t) and y(t) are jointly WSS.			
	OR			
	a) Define Random process? Explain the classification of Random Process?	5	L2	CO212.4
4	b) Define Psd? State and prove the properties of Psd?	5	L2.	CO212.4
	UNIT-III			
	a) The ACF of a WSS random process $X(t)$ is given by $R_{XX}(\tau) = A\cos(w_{0\tau})$	5	L2	CO2 12.
-	where A and Wo are constants. Find psd.	5	L4	11111
5	b) Define Stationary Process? Explain the classification of it?	ì		
**********	OR			· Walland Land

b) Discuss about bandpass, narrow band, band limited random processes and 5 L2 CO212.5	6	a) Explain about white noise and coloured noise	1 1 1 1		000107	
	•		-	TO	CO212.5	
		b) Discuss about bandpass, narrow band, band limited random processes and	3	12:	CO2125	
		list out the properties of it?	5	L2	CO212.3	

BL – Bloom's Taxonomy Levels (1- Remember, 2- Understand, 3 – Apply, 4 – Analyze, 5 – Evaluate, 6 - Create)

K.S.R.M. College of Engineering, Kadapa (Autonomous)

B. Tech Mid Term Examinations JUNE - 2024

Dept.: **ECE Academic Year** 2023-2024

Subject Code	:	2004403	Subject:	Microprocessors and Microcontr			llers			
Mid Term	:	11	Marks:	30M	Regulation:	R20UG	Duration: 90 Min			
Semester	1:	IV	Section:	A, B a	nd C		Date: 28-06-2024(AN)			

Q. No	Question (s)	Marks	BL	СО
1.	a) Explain the programmable peripheral interface 8255.	5M	L2	CO2
	b) List out the features of 8259.	5M	L2	CO1
	(OR)			
2.	a) Explain the programmable communication interface 8251.	5M	L2	CO2
	b) Write an ALP to generate triangular waveform using DAC?	5M	L2	CO1
3.	a) Explain the architecture of 8051 microcontroller with a neat block diagram	5M	L2	CO2
	b) Design an interface 32Kbytes of ROM and 16Kbytes of RAM to the 8051 microcontroller.	5M	L3	CO5
	(OR)		*	
4.	a) List out the features of the 8051 microcontroller.	5M	L2	CO1
	b) Write a program to generate a delay of 1ms using Timer0. Assume that the oscillator frequency is 12 MHZ.	5M	L3	CO4
5.	a) What are the various registers in ARM? Explain?	5M	L2	CO1
	b) Explain Single register load-store instructions of ARM?	5M	L3	CO2
	(OR)			
6.	a) Explain ARM design philosophy.	05M	L2	CO1
	b) Compare the differences between RISC and CISC.	05M	L2	CO1



K.S.R.M C	OL	LEGE OF	ENGINEER	ING, KADAPA	Dept.: ECE
			ONOMOUS)		Academic Year
Mid	-Te		nations June/Ju	aly- 2024	2023 - 2024
Subject Code	:	2004404	Subject: EM V	VAVES AND TRANS	SMISSION LINES
Mid Term	:	II	Marks: 30	Regulation: R20	Duration: 90 Min
Year	:	. II	Semester: IV	Sections: A, B&C	Date: 29.06.2024 AN

Note: Answer all questions choosing one from each unit

Q. No	Question (s)	Marks	BL	CO
1	Derive the boundary conditions for (i) Dielectric – Dielectric interface (ii) Conductor-Dielectric Interface	5 5	L3 L3	CO 3
	OR			
2	a). Derive all the relations between E & H b).Derive the wave equations for Dielectric medium.	5 5	L3	CO 4
3	a) Define Poynting vector. State and prove Poynting Theorem b) Evaluate the velocity of propagation, attenuation constant, phaseconstant and intrinsic impedance for a forward-traveling	5	L3	CO 4
	wave in a large block of copper. ($\sigma = 5.8 \times 10^7 \text{ S/m}, \varepsilon_r = \mu_r = 1$).	5	L5	
	OR			
4	a). Explain the Oblique Incidences on a perfect conductorb) Demonstrate about critical angle.	6 4	L3	CO 4
5	a) Derive the transmission line equations for voltage and currents.b) Define Single stub matching.	7 3	L3	CO5
	OR			
6	a). Demonstrate the construction of Smith-Chart.b).Describe the lossless and distortion-less transmission lines.	5 5	L2 L2	CO 5

Note:

L1-Remembering

L2-Understanding

L3-Applying

L4- Analyzing

L5-Evaluating

L6-creating

K.S.R.M COLLEGE OF ENGINEERING, KADAPA (AUTONOMOUS)

Mid Term Examinations JUNE-2024

Dept. ECE Academic Year 2023 - 2024

Subject Code	:	2004405	Subject: Linear	and Digital IC Appl	ications
Mid Term	:	111	Marks : 30	Regulation : R20	Duration: 90 Min
Year	:	II	Semester : IV	Sections : A,B&C	Date: 01.07.2024 AN

Note: Answer all questions choosing one from each unit

Q. No	Question (s)	Marks	CO	Blooms Level
1	 a) Derive the expression for the time interval of output pulse of a 555 based monostable multivibrator. (5M) b) Derive the expression for count N and explain the operation of Dual slope integration type ADC. (5M) 	10	CO5 CO3	L4 L4
	OR			
2	a) What is PLL, explain its principle of operation and description of individual blocks. (5M) b) Define DAC and write about the design of Weighted resistor DAC. (5M)	10	CO3 CO3	L1 L1
3	Explain in detail CMOS steady state electrical behavior. (10M)	10	CO5	L5
	OR			
4	a) Explain the operation of a CMOS inverter circuit with the help of truth table. (5M) b) What is the importance of CMOS logic families; explain about 74HC and 74HCT logic families? (5M)	10	CO5 CO5	L5 L2
5	a) List the operators used in the verilog programming. (5M) b) With the help of verilog code, design D Flip/flop and verify using its truth table. (5M)	10	CO4	L1 L4
	OR			
6	Develop a Verilog code for a Decade UP/DOWN counter. (10M)	10	CO4	L3



K.S.R.M. College of Engineering, Kadapa (Autonomous)

Dept.: CSE
Academic Year
2023 – 2024

B. Tech Mid Term Examinations June - 2024

Subject Code	:	2005403	Subject:	PRINC	CIPLES OF OPERA	ATING SYST	EMS
Mid Term	:	11	Marks:	30M	Regulation:	R20UG	Duration: 90 Min
Semester	:	IV	Section:	All			Date: 26 th June 2024

. No						Qu	estion	(s)						Marks	BL	со
1.	Explain paging model of Logical memory and Physical memory with an example.									10M	L3	CO3				
								(OR)							
2.	Differentiate Sequential Access and Direct Access of a file with an example.										10M	L2	CO4			
3.	Explain Access matrix with copyrights										10M	L1	CO5			
								(OR)						411.200	
4.	Consider a system with a page frame capacity of 3 and the following page reference string: 3 2 1 3 4 1 6 2 4 3 4 2 1 4 5 2 1 3 4 Apply the LRU (Least Recently Used) page replacement algorithm and								10M	L5	CO3					
	determine the number of page faults.															
5.	Explain U	ser A	uthe	nticat	ion.									10M	L1	CO5
								(OR)							L
6.	Consider a system with four resource types (A, B, C, D) and five processes (P0, P1, P2, P3, P4). The Allocated, maximum and available resource process are as follows:											10M	L4	CO4		
	Process		Allo	catio	n		P	Max Available								
		Α	В	C	D	Α	В	C	D	A B C D						
	PO	0	0	1	2	0	0	1	2	1	5	2	0			
	P1	1	0	0	0	1	7	5	0							
	P2	1	3	5	4	2	3	5	6							
	P3	0	6	3	2	0	6	5	2				İ			
	P4	0	0	1	4	0	6	5	6							
	P3 0 6 3 2 0 6 5 2															

K.S.R.M COLLEGE OF ENGINEERING, KADAPA

(AUTONOMOUS)

Dept.: CSE Academic Year 2023-2024

B.Tech Mid Term Examinations June 2024

Subject Name: COMPUTER ORGANIZATION Subject Code : 2005402 Mid Term : II Marks: 30 Regulation: R20 UG **Duration: 90 Min**

Year II : Semester: IV Section: A, B & C Date: 27-06-2024

Answer any Three Questions choosing one Question from each Unit.

All Questions carries equal marks

Q. No	Question (s)	Marks	BL	CO
	UNIT-III		* (***********	**************************************
1	Discuss in detail about Memory Reference Instructions (MRI).	10	2	3
	OR	dentile of the second s		*************************
2	Define addressing mode and discuss various addressing modes in detail.	10	1	3
	UNIT-IV	dest_111111.011.011111111111111111111111111		
3	Explain about the following a. Microprogram Sequencer b. Microprogrammed Control Unit	10	2	3
	OR	**************************************	hasan gara da bankar ingi nga nga paramat na dinapani da bana a man	A 4
4	Discuss about the following a. Instruction Pipeline b. Virtual Memory	10	2	4
	UNIT-V	4	***************************************	·
5	What is Cache Memory? Discuss various mapping procedures.	10	4	4
	OR	erente fet (meter eren setzbyte den mende (tempe		
6	Explain about the following a. Handshaking b. DMA Transfer	10	2	5

BL - Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 - Applying, 4 -Analyzing, 5 - Evaluating, 6 - Creating)

CO - Course Outcomes

Note: - Please mention only Number in BL and CO

· K.S	R.N	1. Colleg	e of Engir	neerin	g, Kadapa		Dept.:	CSE
			utonomou		•		Acad	demic Year
В.	Tech	Mid Term	n Examinat	ions JU	NE - 2024		202	23-2024
Subject Code	:	2004403	Subject:	Micro	processors and	Microcontr	ollers	
Mid Term	:	11	Marks:	30M	Regulation:	R20UG	Duration: 9	0 Min
Semester	:	IV	Section:	A, B a	nd C		Date: 28-06	-2024

Q. No	Question (s)	Marks	BL	со
1.	a) Explain the programmable peripheral interface 8255.	7M	L2	CO2
	b) List out the features of 8259.	3M	L2	CO1
	(OR)			L
2.	a) Explain the programmable communication interface 8251.	5M	L2	CO2
	b) Briefly explain about DMA controller.	5M	L2	COI
3.	a) Explain the architecture of 8051 microcontroller with a neat block diagram	7M	L2	CO2
	b) List out the addressing modes of 8051 microcontroller & explain any two.	3M	L3	CO5
	(OR)			
4.	a) List out the features of the 8051 microcontrollers.	5M	L2	CO1
	b) Explain the interrupt structure of 8051 microcontroller.	5M	L3	CO4
5.	a) What are the various registers in ARM? Explain?	5M	L2	COI
	b) Explain Single register load-store instructions of ARM?	5M	L3	CO2
	(OR)		1	
6.	a) Explain ARM design philosophy.	5M	L2	CO1
	b) Compare the differences between RISC and CISC.	5M	L2	COI

K.S.		COLLEGE O (AUT	ONOMOUS)	une 2024		2	CS idemic Yea 023– 2024	
ubject (Aid Ter	Code		Subject: Digital Marks: 30 Semester: IV	Regulation: I Section: A, l	20 UG	Duration Date: 29/		
Zear						Marks	81	СО
Q. No		With a neat diag	Question (s)	ation of 4-bit	magnitude	5	L2,L3	and the second second second
1		comparator. Implement full add				5	L4	CO3
		gates.		OR				
	a.	Explain the signification of the significant following Boolean	an function by	using 8X1 II	struct the nultiplexer.	5	L4	CO3
2		$F(A,B,C,D) = \sum m$	(0,1,2,4,6,9,12,14)			5		
3	Wh	Explain Priority E nat is sequential citation table, and	circuit? Construct	the character tion for SR, D	istic table, , JK and T	10	L4	CO4
	flip	flops.	and the second s	OR				775 Sec. 70 State (1985)
4	a. b.	Dogian a synch	Mealy state mach aronous sequential e or more consecu- in input line.	il circuit mai	ucteets	5 a s 5	L4 L6	CO4
5	a. b.		Explain about bidirn the working of	rectional shift re 3-bit synchrono	egisters? ous up/dow	n 5 5	L1,L2 L4	CO5
		counter.		OR				
6		xplain about PLA?	Construct the PLA $F1(A,B,C) = \sum t$ $F2(A,B,C) = \sum t$	n(0,1,2,4)	ing Boolea	n 10	L6	COS
		membering nalyzing	L2-Uerstandir L5-Evaluating		L3-Applyi L6-Creatir			

K.S.R.M COLLEGE OF ENGINEERING, KADAPA (AUTONOMOUS)

B.Tech., Mid Term Examinations June/July -2024

Marks: 30

Dept.: CSE Academic Year 2023 - 2024Subject: PROBABILITY THEORY AND STATISTICAL METHODS

Duration: 90 Minutes

II Semester: IV Answer ALL the questions. All Questions carry Equal Marks

2021405

: II

Course Code

Mid Term

Year

 $3 \times 10 = 30 \text{ Marks}$

Date: 01-07-2024

Q. No				Ques	tion ((s)					Marks	BL	СО
1	Explain: (i) Null I (iv) Level of Signif	Typothericance (sis (ii) v) Typ	Alte	ernati Erro	ve H	ypoth	esis	(iii) (Critical region		L2	CO3
			3300			OF				<i>e</i> :			
2	In a city A, 20% of physical defect. In boys had the same at 0.05 level of sign	another defect. I	s the d	3, 18.	5% o	f a ra	ındon	sam	nle o	f 1600 school	10M	L4	CO3
3	The nicotine contents be as follows: SampleA 24 SampleB 27 Can it be said the Population.	3	7	26	8		21		25 22	36	10M	L4	CO4
						OR							
4	A pair of dice are the below: Sum	4 4 35 the dice	5 37	6 44	7 65	8 51	9	2	10 26	11 12 14 14	10M	L4	CO4
5	Each telephone call indicates the quality at a busy hour. Resu Sample no. 1 Mean 20	of service lts for the 2 34	ce. Fiv	e cal	ls cho	sen a	it rand	dom a	and tir	nes recorded	10M	L3	CO5
	Range 13	9	15	5	20	17	21	11	10	10	İ	į	
	Construct \bar{X} and R c	harts an	d deter	rmine	whe	ther t	he pro	oduct	is un	der control.			

Regulation: R20 UG

Section : A,B & C

Samp No.	le 1	2	3	4	5	6	7	8	9	10		,	
No. of defect units	- 1	15	14	26	9	4	19	12	9	15	10M	L3	CO5

	COLLEGE	PENCIMEEDI	NG, KADAPA	Dept.:	AIML
K.S.R.M			ino, Kadai is	Ac	ademic Year
R T		TONOMOUS) Examinations J	ULY 2024		2023-2024
Subject Code	: 2039402	Subject: Design	and Analysis of Algor	ithms	
Mid Term	: II	Marks: 30	Regulation: R20 UG	Duration:	
Vear	: II	Semester : IV	Section : A	Date :27/6/2	24

. No	Question (s)	Marks	BL	CO
1	Construct OBST using the following instance $n=4$ and keys= $(10,20,30,40)$, $p[1:4]=(3,3,1,1)$ and $q(0:3)=(2,3,1,1,1)$?	10	A	CO3
	OR			20-0-0-1 - 1-1-0-0-0-1 - 1-1-0-0-0-1 - 1-1-0-0-0-0
2	Calculate the minimum cost path of the Travelling Sales person problem with the help of following Graph & Adjacency matrix? 1 2 3 4 1 0 10 15 20 5 0 9 10 6 13 0 12 8 8 9 0	10	U	CO3
3	Write the algorithm for Bi-connected components with the help of an example?	- 10	Az	CO4
	OR		***************************************	
4	Write the algorithm for Backtracking general method? Draw the state space of Sum of Subsets with an instance w={5,10,12,13,15,18}, m=30,n=6using Backtrack approach?	10	A	CO4
5	Solve the Travelling sales persons problem generated by LC branch and bound solution/ $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	10	A	CO5
	OR		400 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
6	a)Explain NP-Complete and NP-Hard class problems with examples? b)Write the COOK'S theorem with an example?	5	U	COS

Faculty In-charge • -Remembering

- U-Understanding
- A-Applying
- Az- Analyzing
- E-Evaluating

K.S.R.M. College of Engineering, Kadapa (Autonomous) B.Tech. Mid Term Examinations June/July – 2024

Academic Year

2023 - 2024

AI&ML

Subject Code	:	2039403	Subject:	OPER	ATING SYSTEMS		
Mid Term	:	11	Marks:	30M	Regulation:	R20UG	Duration: 90 Min
Semester	:	IV	Section:				Date: 28th June 2024

Q. No	Question (s)	Marks	BL	CO
1.	A) Explain demand paging in detail.	5M	L2	CO3
le le le le le le le le le le le le le l	B) Explain FIFO, Optimal and LRU page replacement algorithms. Consider page reference string 7, 0, 1, 2, 0, 3, 0, 4, 2, 3, 0, 3, 2, 1, 2, 0, 1, 7, 0, 1	5M	L3	CO3
	and 3 frames in main memory. Find the number of page faults for the page replacement algorithms FIFO, Optimal and LRU.			=,
	(OR)			
2.	A) Explain about demand paging	5M	L2	CO3
	B) Write short notes on – first fit, best fit, worst fit with suitable examples.	5M	L2	CO3
3.	A) What is a deadlock? What are the necessary and sufficient conditions for	5M	L2	CO4
	the dead lock?			
	B) Explain different file accessing methods.	5M	L2	CO4
	(OR)			
4.	Explain about Banker's algorithm with suitable example.	10M	L3	CO4
5.	A) Explain about directory structure	5M	L2	CO4
	B) Write short notes on swapping.	5M	L1	CO3
	(OR)		L	
6.	What is access matrix. Explain about implementation of access matrix.	10M	L2	CO5

LSR0

HOD

• 50	K.	S.R.M. Colleg	ge of Engineer	ing, I	Kadapa		Dept	AIML
		(A	utonomous)				Acad	lemic Year
•	B. T	ech Mid Tern	n Examinatio	ns Jui	ne – 2024		202	23 - 2024
Subject Code	1:	2039404	Subject:	DATA SCIENCE				
Mid Term	:	П	Marks:	30 M	Regulation:	R20UG	Duration	ı: 90 Min
Semester	:	IV	Section:	-			Date:29.	06.2024

Q. No	Question (s)	Marks	BL	CO
1.	A) Briefly explain about following terms.	5M	L2	CO4
	a) Data Frame			_
	b) Matrix			
	B) Write installation steps of R-software	5M	Ll	CO4
	(OR)			L
2.	Describe about command packages in R	10M	L2	CO4
		1	1	
3.	Explain about following terms.	10M	Ll	CO4
	a) Vector			
	b) List	<u> </u>		
	(OR)			
4.	Explain different terminology from Social Networks.	10M	Li	COS
5.	A) How to write a technical journalism and explain history on Data Journalism	5M	L2	COS
	B) Explain the background on Social Network Analysis from a Statistical point of view	5M	L3	COS
	(OR)			
6.	How Social Network Analysis was implemented at Morning Analystics explain in detail.	10M	L2	COS

K.S.R.M COLLEGE OF ENGINEERING, KADAPA						H&S
(AUTONOMOUS)					Academic Year	
В. Т	ech	Mid Term	Examination	s June/July 2024	202	3 - 2024
Subject Code	:	20MC409	Subject Nan	ne: Constitution of India		O at
Mid Term	:	II	Marks: 30	Regulation: R20UG	Duration:	90 Min
Semester:		IV		Branch: AI & ML	Date: 02-	-07-2024

Answer Three Questions choosing One Question from each Part All Questions carry equal marks

Q. No.	Questions	Marks	BL	Cos
1	Explain the Powers and Functions of Chief Minister?	10	L2	CO3
	OR	L		· L
	Explain the following:			
2	A) Functions of State Council of Ministers	05	L2	CO3
=	B) Role of Governor in the State	05	L2	CO3
3	Discuss the functions & powers of municipal corporation?	10	L2	CO4
	OR			
4	Explain Role and Responsibilities of District Collector?		L2	CO4
5	Describe the features and Functions of the Election Commission of India?	10	L2	CO5
	OR			
6	Write about the following: A) Role of National Commission for OBC	05	L2	CO5
	B) National Commission for Women Welfare	05	L2	CO5

BL - Bloom's Taxonomy Levels

1- Remembering, 2- Understanding, 3 - Applying, 4 - Analysing, 5 - Evaluating, 6 - Creating

K.S.R.M. College of Engineering, Kadapa (Autonomous)

Academic Year

Dept.:

2023 - 2024

AI&ML

• В	. recr	i. ivilu Ter	III Examini	ו פווטווג	VIAY-2024			
Subject Code	:	2039405	Subject:	Busin	ess Intelligence			
Mid Term	:	11	Marks:	30M	Regulation:	R20UG	Duration: 90 Min	
Semester	1:	IV	Section:				Date: 06-05-2024	

Q.	Question (s)	Marks	BL	CO
No				
1.	Define IBM Cognos and explain its key features?	10	L2	CO3
	(OR)	L	<u> </u>	
2.	Explain IBM Cognos Workspace and its features?	10	L2	CO3
3.	What is Dashboard in IBM Cognos and how it helps in Business operations?	10	L3	CO4
	(OR)			
4.	Explain the steps involved in creating IBM Cognos report right from the start?		L2	CO4
5.	List out the Popular Data Visualization tools that you know and explain some of the stand out features of IBM Cognos?	10	L3	COS
	(OR)			
6.	Explain Reports and Dashboard in IBM Cognos, when to choose and why?	10	L3	COS



website