K. S. R. M	. cc	DLLEGE OF	ENGINEERING, 1	KADAPA	Dept: CE (GTE		
		(AUTONO	OMOUS)		Academic Year		
M.Tech I	Mid	Term Exam	inations of June	- 2024	2	023 – 2024	
Subject code	:	2212201	Subject: Exper	imental Geon	nechanics		
Mid Term	:	I	Marks: 40	Marks: 40 Regulations: R22 PG Duration: C			
Year	1:	I	Semester : II	Section: Date: 11.06.2024 FN			

Note: Answer the following questions All questions will carry equal Marks

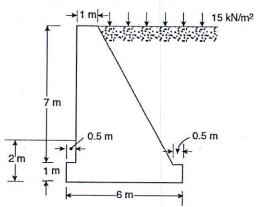
). o	Questions			Marks	\mathbf{BL}	СО
1.	a.	Explain about the scope and obje	ectives of explor	ration?	05	L2	CO1
	b.	Explain about the preliminary a exploration?	and detailed d	esign of	05	L2	CO1
2.		Describe open excavation method are their advantages and disadva		n. What	10	L1	CO2
3.	a.	Explain in detail about wash bori	ng method?		05	L2	CO2
	b.	Explain in detail about percussio	n drilling?		05	L2	CO2
4.		What are the factors that disturbance? How are these effect	affect the ts minimized?	sample	10	L1	CO3
		1-Remembering, 2-Unde 4-Analyzing, 5-Evalu	rstanding, ating,	3-Appl 6-Crea	0	*	

Faculty In-Charge

K. S. R. M	. cc	DLLEGE OF	KADAPA	Dept: CE (GTF			
		(AUTONC	OMOUS)		Ac	ademic Year	
M.Tech I	Mid	Term Exam	inations of June	- 2024	. 2	023 - 2024	
Subject code	:	2212202	Subject: Earth	Retaining Str	uctures		
Mid Term	:	I	Marks: 40	: 40 Regulations : R22 PG Duration : 02			
Year	:	I	Semester : II	Section: Date: 12.06.2024			

Note: Answer the following questions All questions will carry equal Marks

Q. No	Questions	Marks	BL	СО
1. a. b.	Explain about the Coulomb's earth pressure theory? Explain about the Rankine's earth pressure theory?	05 05	L2 L2	CO1
2.	Check the stability of the concrete retaining wall shown in Figure. The backfill material is a mixture of sand and gravel with the following properties: $\gamma=19.6~kN/m^3$ and $\phi=33^\circ.$ The tangent of the coefficient of friction between the concrete and the soil is 0.48. The unit weight of concrete is 2.5 $kN/m^3.$ The retaining wall is placed on a very dense gravelly bed with an allowable soil pressure of 380 $kN/m^2.$	10	L3	CO2



- 3. Discuss about the design considerations for a 10 L6 CO2 mechanically stabilized earth wall.
- 4. Discuss about the sheet piling in cohesive soils with 10 L6 CO3 granular backfill with a neat diagram.
 - 1-Remembering,
- 2-Understanding,
- 3-Applying,

- 4-Analyzing,
- 5-Evaluating,
- 6-Creating

. K. S. R. I	И. C	OLLEGE OF	ADAPA	Dept:	CE (GTE)	
		(AUTON	OMOUS)		Д	cademic Year
M.Tech	l Mic	I-Term Exam	ninations of June -	- 2024		2023 – 24
Subject code	:	2212204	Subject: Found	lations on Expar	nsive Soils	
Mid Term	:	I	Marks: 40	Regulations: R22 PG Duration: 02 F		
Year	:	I	Semester: II	Section: -		Date: 13.06.2024 FN

Note: Answer the following questions All questions will carry equal Marks

Q. No 1. a.	Questice Discuss the effect of mineralo		of the	Marks 05	BL L1 & L2	CO CO1
b.	soil. Explain about the natural soil of	deposits.		05	L1 & L2	CO1
2.	Discuss the effect of soil stru density on expansion potential		nt, and	10	L1 & L2	CO2
3.	Discuss surface grading and d	rainage.		10	L1 & L2	CO2
4.	Explain the computation of for diagram.	pooting heave with	a neat	10	L1 & L2	CO3
		-Understanding, -Evaluating,	3- 6-Creatin	Applying, g		

Faculty In-Charge

K. S. R. M	. CC	OLLEGE OF	ENGINEERING,	KADAPA	Dept:		CE	(GTE)
M Tech I	Лia	(AUTONO	MOUS) inations of June	0004	А	cademi		
		•		C REMINISTER S		2023 -	2024	
Subject code	:	2212207	Subject: Desig	n with Geosy	nthetics			***************************************
Mid Term	:	I	Marks: 40	Regulation	s : R22 PG	Dura	tion	02 Hrs
Year	:	I	Semester : II	Section:		Date:	14.06	2024 FN
		No	ote: Answer the	following que:	stions			*************************************
		All	questions will c	arry equal Ma	rks**			
Q.No			Questions			Marks	\mathbf{BL}	CO
		_	extile beneath		ast, the	10	L2	CO1
		=	erve in four	different fu	inctions			
			Describe and	illustrate	these			
func	ion	ıs.						
2. Design	gn	a 6.00 m h	igh wrap-arou	nd type of ge	eotextile	10	L6	CO2
wall	tha	t is to carr	y a storage are	a of equivale	nt dead			
load	of	10 kPa. Tl	he wall is to h	be backfilled	with a			
			aving properties					
= 36	, a	and $c = 0.1$	$\kappa N/m^2$. A wove	n slit-film ge	eotextile			
with	wr	ap (machi	ne) direction	ultimate wid	e-width			
tensi	e s	strength of	50 kN/m and	friction and	de with			
granı	ılar	soil of $\delta =$	24° is intende	ed to be use	d in its			
			orientation of					
			e wall face and					
			to handle the					
			of safety of 1.4					
			luction factors.	is to be use	u along			
			esting, what	is on indo	r toot	10	т 1	000
perfor	ma	nce test ar	nd how can typ	oical laborate	x test,	10	L1	CO2
value	b	e made in	to allowable va	alues for des	sign by			%
functi	on	procedure?		101 400	O NJ			
4. A 30	m 1	ong slope h	nas uniform thi	ckness cover	soil of	10	L5	CO3
		at =				222002		

4. A 30 m long slope has uniform thickness cover soil of 300 mm at a unit weight of 18 kN/m³. The soil has a friction angle of 30° and zero cohesion. The cover soil is on a geomembrane. Direct shear testing has resulted in an interface friction angle 22° with zero adhesion. The slope angle is 3H:1V, i.e., 18.4°. a design earthquake approximately transferred to the site's cover soil results in an average seismic coefficient of 0.10. Calculate the FS value and comment accordingly.

1-Remembering,

2-Understanding,

3-Applying,

4-Analyzing,

5-Evaluating,

6-Creating

Faculty In-Charge

K.S.R	l.M C		FENGINEERIN	IG, KADAPA	Dept.:	EEE & CI (PS & GT
M Tach I San	nosta		JTONOMOUS)		Acade	emic Year
		I		minations Jun- 2024		3 – 2024
Subject Code	•	2270A05	Subject: Consti	tution of India (Audit Co	urse)	
Mid Term	:	1	Marks: 40	Regulation : R22	Duration:	120 Min
Year	:	1	Semester : II	Section : M. Tech	Date :15-0	6-2024

Answer ALL the questions. All Questions carry Equal Marks

4x10=40 Marks

Q. No	Question (s)	Marks	Skills	CO
1	State the Meaning and Sources of Indian Constitution?	10	R	CO
2	Explain the significance of the Constitution of India?	10	R	CO
3	Discuss the Fundamental Rights of the Indian Citizens?	10	Α	CO2
4	What are the fundamental duties of the Indian Citizens?	10	U	COZ

- R-Remembering
- U-Understanding
- A-Applying



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

M.Tech Mid Term Examinations June 2024

EEE Dept.: (Power Systems) Academic Year 2023 - 2024

Subject Code	:	2252201	Subject: Power	System Security and S	tate Estimation
Mid Term	:	I	Marks: 40	Regulation : R22 L	Duration : 120 Min
Year	:	1	Semester : II	Section : M. Tech	Date: 11-06-2024
		1	1		

Answer all four questions

All questions carry equal marks

Q.NO	Questions	Marks	BL	CO
1	Explain formation of Bus admittance matrix by direct inspection method.	10M	L1	C01
2	a) Algorithm for formation of Bus Impedance matrix with addition of a branch.b) Explain about sparsity programming.	10M	L1	CO1
3	Explain DC power flow methods.	10M	L2	CO2
4	Explain factors influencing power system security.	10M	L2	CO2

	Dept.: EEE/PS								
(Autonomous)								Academic Year	
. M	. Tec	h Mid Tern	n Examinati	ons, Ju	ne – 2024		20	23 – 2024	
Subject Code	:	2002405	Subject:	Powe	r Systems Dyn	amics-II			
Mid Term	:	I	Marks:	40M	Regulation:	R22UG	Duration:	2:00 Hrs	
Semester	:	I	Section:	-	5		Date: 12/0	6/2024	

Note: Answer the following Questions All questions carries equal marks

Q. No	Question (s)	Marks	BL	CO
1.	Explain the concept of state space representation.	10M	L2	CO1
2.	Explain the classical model of single machine connected to infinite bus		L2	CO1
	system.	10M	1.2	COI
3.				
	Derive stator voltage equation for the effect of field flux linkage.	10M	L3	CO2
4.	Write the effect of AVR on damping and Synchronous component at			
	the rotor oscillation frequency.	10M	L2	CO2

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

Faculty In-charge Saleha Tabassum, Asst.Prof,EEE Dept

	Dept.:	E EE PS							
(Autonomous)							Academic Year		
M	M. Tech I Mid Term Examinations June - 2024								
Subject Code	:	2252204	Subject:	ct: Energy Auditing and Management					
Mid Term	:	I	Marks:	40M	Regulation:	R22PG	PG Duration: 120 Min		
Semester	:	II	Section:	-			Date: 13.0	6.202 4	

Answer All Questions

Q. No	Question (s)	Marks	BL	CO
1.	Explain methodology used for effective energy auditing? Also mention goal of energy auditing?	10M	L2	CO1
2.	Describes about Snakey diagram, Pie charts and Load profiles used on energy flow representations	10M	L4	CO2
3.	Elucidate in details optimum location of capacitor bank in the industry and how it is improving the energy conservation?	10M	L3	CO3
4.	Briefly describe about energy efficient lighting and energy conservation in Lighting Schemes	10M	L5	CO2

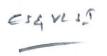
Level 1 □ Remembering
Level 2 □ Understanding
Level 3 □ Applying
Level 4 □ Analysing
Level 5 □ Evaluating
Level 6 □ Creating

K.S.R.M COLLEGE OF ENGINEERING, KADAPA (UGC-AUTONOMOUS)					
:	2252207	Subject: Electri	cal Power Quality		
1:	I	Marks: 40	Regulation : R22	Duration :	120 Min
:	I	Semester: II	Section: M. Tech	Date: 14	1-06-2024
	Mid	(UGC-AI	(UGC-AUTONOMOUS) Mid Term Examinations JUNE : 2252207 Subject: Electri : I Marks: 40	(UGC-AUTONOMOUS) Mid Term Examinations JUNE 2024 : 2252207 Subject: Electrical Power Quality : I Marks: 40 Regulation: R22	(UGC-AUTONOMOUS) Acade Mid Term Examinations JUNE 2024 2023 : 2252207 Subject: Electrical Power Quality : I Marks: 40 Regulation: R22 Duration:

Answer ALL the questions. All Questions carry Equal Marks

4x10=40 Marks

Q. No	Question (s)	Marks	Skills	СО
1	Define Power Quality? Justify power quality is equal to voltage quality.	10	L1	CO1
2	Classify and explain the various power quality issues with a neat sketch.	10	L2	CO1
3	Explain various end effects due to poor power quality.	10	L1	CO2
4.a	Enumerate the differences between transients and harmonics.	5	L1	CO2
4.b	Write a short note on Individual Harmonic Distortion (IHD) and Total Harmonic Distortion (THD).	5	L2	CO2



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

M. Tech Mid Term Examinations June, 2024

Dept.: ES& VLSI

Academic Year

2023-2024

Subject Code	•	2284201	Subject: Analog	nalog and Digital CMOS VLSI Design			
Mid Term	•	I	Marks: 40M	Regulation : R22	Duration: 120 Min		
Year	•	_	Semester : II		Date: 11.06.2024		

Note: Answer all the questions.

Q. No	Question (s)	Marks	BL	CO
1	Explain basic MOS structure and its static behavior.	10M	L2	C01
2	Explain the characteristics of static CMOS inverter.	10M	L2	C01
3	Analyze the physical design flow of CMOS design.	10M	L3	CO2
4(a)	Explain logic effort in combinational logic.	5M	L2	CO2
(b)	Explain speed and power dissipation in dynamic logic.	5M	L2	C02

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

M. Tech Embedded Systems and VLSI

Dept.: **ECE** Academic Year

	2023-2024							
Subject Code : 2284202 Subject: EMBEDDED REAL TIME OPERATING SYSTEM								
Mid Term	:	I	Marks: 40M	Regulation: R22 PG	Duration: 120 Min			
Year	:	I	Semester : II	Date: 12.06.2024				

Note: Answer all the questions.

Q. No	Question (s)	Marks	Levels	СО
1	List out and define the three main characteristics of embedded systems that distinguish such systems from other computing systems	10M	L1	CO115.1
2	List and define the three main processor technologies. What are the benefits of using each of the three different processor technologies?	10M	L1	CO115.1
3	Describe the basic architecture of a general-purpose processor with a neat diagram	10M	L2	CO115.2
4	Design a single purpose processor that computes GCD.	10M	L6	CO115.2

R-Remembering

Az- Analyzing

C-Creating

A-Applying

U-Understanding

E-Evaluating

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

(AUTONOMOUS)

Mid Term Examinations JUNE 2024

Dept.:

ECE

(ES & VLSI)

Academic Year

2023 - 2024

Subject Code	:	2284204	Subject: ADVANCED COMPUTER ARCHITECTURE				
Mid Term	:	I	Marks: 40	Regulation: R22PG	Duration: 120 Min		
Year	 :	I	Semester : II	Section : M. Tech	Date: 13-06-24		

Answer ALL the questions. All Questions carry Equal Marks

4x10=40 Marks

Q. No	Question (s)	Marks	Skills	СО
1	Compare the terms cost and price. Explain about Amdahl's law in detail.	10	Az	CO1
2	Classify the instruction set architectures and explain each with examples.	10	U	CO1
3	Write about Tomasulo's approach of dynamic scheduling used to overcome data hazards.	10	A	CO1
4.	Write a short note on cache performance.	10	U	CO1

- R-Remembering
- U-Understanding
- A-Applying
- Az- Analyzing
- E-Evaluating
- C-Creating

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

(AUTONOMOUS)

M. Tech Embedded Systems and VLSI Mid Term Examinations JUNE- 2024

Dept.: ECE
Academic Y car

2023 - 2024

Subject Code		2284208	Subject: NETWORK SECURITY AND CRYPTOGRAPHY					
Mid Term	:	I	Marks: 40M	Regulation: R22PG	Duration: 120 Min			
Year	•	I	Semester : II	Date: 14/06/2024				

Note: Answer all the questions.

Q. No	Question (s)	Marks	B.L	CO
1(a)	Draw and Explain OSI Security Architecture.	5M	L2	CO.1
(b)	What are the different types of attacks? Explain with examples.	5M	L1	CO.1
2	Briefly Explain about Extended Euclidean Algorithm, and Modular Arithmetic.	10M	L2	CO.1
3	Explain in detail about the Characteristics of Advanced Symmetric block ciphers.	10M	L2	CO.2
4(a)	Discuss about Block Ciphers, Stream Ciphers, and RC4 Stream cipher.	5M	L4	CO.2
(b)	Explain in detail about the Data Encryption Standard (DES)	5M	L2	CO.2

• R-Remembering

Az- Analyzing

C-Creating

• A-Applying

U-Understanding

E-Evaluating

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

M. Tech Embedded Systems and VLSI Mid Term Examinations June, 2024

Dept.: ECE

Academic Year

2023 – 2024

Subject Code	:	2270A01	Subject: English for Research Paper Writing				
Mid Term	:	I	Marks: 40M	Regulation: R22 PG	Duration: 2 Hrs.		
Year	:	Ι	Semester : I	Date: 15/06/24 SAT	Γ .		

Note: Answer all the questions.

Q. No	Question (s)	Marks	Skills	СО
1	a) Explain steps that are involved in planning and preparation in writing a research paper?	5M	U	CO104.1
¥	b) List out the examples of word order.	5M	R	CO104.1
2	a) How to avoid ambiguity and vagueness in sentences?	5M	U	CO104.1
H	b) What do you know about 'Being Concise and Removing Redundancy'	5M	Е	CO104.1
3	How do you check your journal style?	10M	A	CO104.2
4	a) Elaborate your ideas on presenting your findings in a very short sentence.	5M	Е	CO104.2
	b) Write short notes on Hedging and Criticizing	5M	R	CO104.2

• R-Remembering

Az- Analyzing

C-Creating

A-Applying

U-Understanding

E-Evaluating

K.S.R.N	10	COLLEGE OF	ENGINEERIN	IG, KADAPA	Dept	CSE
	(AUTONOMOUS)					
M.Tec	h (.	No. 2 & 6 Sec.	erm Examination	ıs June 202 4	202	23 -202 4 -
			Subject: Data S	cience		
Mid Term: I Mid	:	Subject Code:2298201	Marks: 40	Regulations: R22 PG	Duration : 1	20 Min
Year	:	I	Semester : II	Section:-	Date: 11-0	6-2024

Answer all question

Q. No	Question (s)	Marks	CO	Blooms Level
1	a. What is Data Science? Explain the history of the Data Scicence.	5	CO1	L1
1	b. Discuss the Exploratory Data Analysis.	5	CO1	L3
2	What is EDA? Explain EDA in data Science with suitable examples.	10	CO1	L2
2	a. Explain Linear regression in detail.	5	CO2	L3
3	b. Discuss the K-NN algorithm in detail.	5	CO2	L2
4	How Bayes law is useful to create a Spam Filter? Explain.	10	CO2	L4

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

K.S.R.I	Dept.	Al&DS				
11.01101			TONOMOUS)	MING, KADATA	Acad	em ic Year
M. '	Tecl	h. Mid Ter	m Examination	s June- 2024.	202	23 - 2024
Subject Code		2298202	Subject: Deep	Learning	Į	100 (100 (100 (100 (100 (100 (100 (100
Mid Term	:	I	Marks: 40	Regulation: R22 PG	Duration	n: 120 Min
Year	•	I	Semester: II	Section: -	Date: 12-06-202	

Answer all questions

Q. No.	Question (s)	Marks	BL	СО
1	Define Topology? Explain about Deep Recurrent Neural Network?	10	L3	CO2
2	Discuss in detail about Types of Autoencoder in Deep Learning?	10	L4	CO3
3	Explain RBM Architecture with Example? Discuss different Types of RBM.?	10	L4	CO4
4	Illustrate Open Source Frameworks for Deep Learning?	10	L5	CO5

- R-Remembering
- U-Understanding
- A-Applying
- Az- Analyzing
- E-Evaluating
- C-Creating

Dept CSE K.Ŝ.R.M COLLEGE OF ENGINEERING, KADAPA Academic Year (AUTONOMOUS) 2023-2024 M.Tech (AI&DS) Mid Term Examinations June 2024 Subject: : Exploratory Data Analysis using R (PE-3) Regulations: R22 Mid Term: I Subject **Duration**: 120 Min Marks: 40 Code:2298204 PG Mid I Semester: II Section: -Date: 13-06-2024 Year :

Answer all question

Q. No	Question (s)	Marks	СО	Blooms Level
	Elaboratel Why do we analyze data,	5	CO1	L1
1	Do the exploratory analysis of data view	5	CO1	L3
2	Provide a detailed explanation about on the following topics: computers, software and R.	10	CO1	L2
3	Explain the following concepts related to graphics: a. Base Graphics b. Grid graphics	10	CO2	L3
4 H	How the points, lines and text were added to a plot	5	CO2	L4
ı	Write about pie charts and why they should be avoided	5	CO2	L4

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

Dept.: K.S.R.M COLLEGE OF ENGINEERING, KADAPA AI &DS Academic Ye-ar (AUTONOMOUS) 2023 - 2024M.Tech Mid Term Examinations, JUNE - 2024 Sübject Code : 2298209 Subject: TEXT MINING & TIME SERIES DATA ANALYSIS : 1 Mid Term Marks: 40 Regulation: R-22 PG **Duration: 120 Min** : 1 Semester: II Year Date: 14-06-2024

Note: Answer ALL questions.

Q. No	Question (s)	Marks	BL	СО
1	A) Explain how to represent unstructured text documents with appropriate formats and structure. B) What is Tokenization in NLP? Explain with an example.	5	L1	CO 1
2	Explain Navie bayes algorithm in text analysis with examples.	10	L1	CO 1
3	Explain in detail about document summarization in text mining.	10	L2	CO 2
4	List and explain the types of Sentiment Analysis in detail.	10	L2	CO 2

K.S.R.N	10	COLLEGE OF	ENGINEERIN	IG, KADAPA	Dept	CSE
(AUTONOMOUS)					Academi∢ Year	
M.Tec	h (.		erm Examination	ns June 2024	202	23-2024
l e i			Subject: Stress	Management by Yoga		***************************************
Mid Term: I Mid	•	Subject Code: 2270A07	Marks: 40	Regulations: R22 PG	Duration :	120 Min
Year	:	I	Semester : II	Section : -	Date: 15-0	6-2024 FN

Answer all question

Q. No	Question (s)	Marks	СО	BL
1	What is Yoga? Discuss the importance of Yoga in our life.	10	CO1	U
2	Explain in detail Ashtanga Yoga and its importance in human life.	10	CO1	A
3	What is the difference between Ashtanga and Vinyasa Yoga?	10	CO2	A
4	Explain in detail about Niyama	10	CO2	U

- R-RememberingU-UnderstandingA-ApplyingAz- Analyzing

- E-Evaluating
- C-Creating