SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

UNIT-III

B.Tech. II Year I Semester Supplementary Examinations October/November-2025 (AUTONOMOUS)

NETWORK THEORY

(Electronics & Communications Engineering)

Time: 3 Hours

(Answer all Five Units 5 x 12 = 60 Marks)

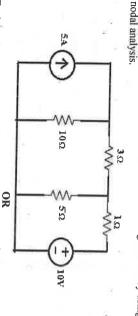
Max. Marks: 60

a Explain about Nodal analysis and write the steps for applying nodal Determine the current in 10Ω resistor for the following network by using CO1 C01 L2

L

€

6M



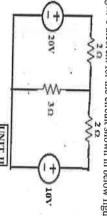
a Explain about Super Nodal analysis and write the steps for applying nodal analysis. COI L3 M₂

Verify Tellegen"s theorem for the circuit shown in below figure.

C01

L₂

6M



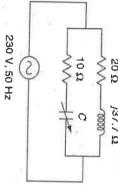
a Explain about Quality factor and Band-width of Series resonance UNIT-II

b Find the value of C in the circuit shown to get resonance. 20 Ω /37.7 Ω

C02

1.3

6M M



a Explain about Propagation constant and Characteristic impedance in Tnetwork filters. C02 L3 6M

Design a Band-elimination filter having design impedance of 600Ω and CO2 cut-off frequencies f_1 = 2kHz and f_2 = 6 kHz. $\mathbf{L4}$

6M

10 Determine the Fourier transforms of the following waveforms shown in figure (a) and figure (b). a Derive the expressions for Y-parameters in terms of ABCD parameters. a Find the h-parameters of the network shown in figure Derive the Transient Response of series RLC-circuit with D.C excitation. a Derive the Transient Response of series RL-circuit with D.C excitation. ν Explain about Line spectrum and Phase spectrum Find the Fourier series for the following waveform The given Y-parameters are, Y_{11} = 0.5, Y_{12} = Y_{21} = 0.6, Y_{22} = 0.9.Find Z-Explain about ABCD-parameters parameters A series RL circuit with R=30Ω and L= 15H has a constant voltage V=60v applied at t=0. Determine the current "1", voltage across resistor and voltage across inductor. lig(n) 20 (E) 20 198 UNIT-V UNIT-IV (d) 100 e-10t 40 15 1 JAA. £.7 C05 C05 C04 C05 C04 C03 CO3CO4 L3 L_2 L3 L2 L2 L3 L3 L3 L2 L3 12M 6M 8 X 12M M₂ M₂ 6M 6M 6M

O.P.Code: 19CS0505 R19 H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech. II Year I Semester Supplementary Examinations October/November-2025 C AND DATA STRUCTURES

	C AND DATA STRUCTURES				
	(Common to CSIT & CSE)		_		
Time		Max. Marks: 60			
	(Answer all Five Units 5 x 12 = 60 Marks) UNIT-I				
1	a Explain the general form of a C program with an example.	CO1	L1	6M	
	b Write a program to determine the Greatest Common Divisor (GCD)of	CO5	L3	6M	
	two numbers.				
	OR				
2	What is the purpose of a printf() and scanf() statements? Write a C program	n CO2	L2	12M	
	to find area of a triangle.				
	UNIT-II				
3	a List and explain the storage classes with examples.	CO1	L4	6M	
	b What is an array? What are the advantages of arrays over a ordinary	CO2	L2	6M	
	variables? How arrays are declared and initialized?			01.1	
	OR				
4	a How to pass array elements as arguments to function? Explain with one	CO2	L2	6M	
•	example.	COZ	LLZ	OIVI	
	b What is 2D array? Write program for addition of 2 matrices.	CO4	L3	ζN/I	
		CO4	L3	6M	
_	UNIT-III				
5	a How to declare and initialize a structure with examples?	CO ₂	L2	6M	
	b Give the differences between structures and arrays.	CO ₂	L4	6M	
	OR				
6	a Briefly explain bit fields concept.	CO ₁	L2	6M	
	b Illustrate the use of typedef with suitable example.	CO ₂	L3	6M	
	UNIT-IV				
7	What is a stack? What are various operations that can be performed on	CO ₂	L2	12M	
	them? Explain with an example.				
	OR				
8	a Discuss application implementation. Of queue. Write a program on	CO2	L5	6M	
	queue with array.				
	b What is data structure? Explain the linear and non linear data structure i	n CO1	L1	6M	
	detail.			01.1	
	UNIT-V				
9	 	005	т 2	1074	
9	Implement the following single linkedlist operations:	CO5	L3	12M	
	i). Insertion of a node ii). Deletion of a node iii). Searching an element				
	OR				
10	a lain insertion sort with an example.	CO2	L2	6M	
	b What do you mean by Searching? Explain sequential search and binary	CO ₂	L2	6M	
	search with suitable example.				
	*** END ***				

Q.P.Code: 19CS0506

R19

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech. II Year I Semester Supplementary Examinations October/November-2025 DATABASE MANAGEMENT SYSTEMS

		DATADASE MANAGEMENT SISTEMS			
Ti.	ma	(Common to CSE & CSIT)	3.5		
111	пс	(Answer all Five Units $5 \times 12 = 60$ Marks)	Max.	Mark	ks: 60
		UNIT-I			
1		Draw the Architecture of Database.	CO ₁	L4	6M
	b	Discuss about Database users and Administrators.	CO ₁	L2	6M
		OR			
2	a		CO1	L2	6M
	b	Explain about various data models.	CO ₁	L2	6M
		UNIT-II			1.5
3	a	Explain the working of union, intersection and except operations.	CO ₂	L2	6M
	b	Give a examples of clauses SELECT with an example.	CO ₂	L2	6M
		OR		E	
.4	a	Distinguish between two set theoretic operations of relational algebra with an example.	CO ₂	L2	6M
	b	To establish the WHERE, ANY, AS and ALL sub queries with example. UNIT-III	CO2	L3	6M
5	я	Define functional dependencies. How are primary keys related to FD's?	CO3	Τ 1	CN II
	b	and the second s		L1	6M
	~	OR	CO ₃	L1	6M
6	a	Explain the following with suitable example:	CO2	Τ.	(3.7
v	••	(i) Non- Loss decomposition. (ii) Prime Attributes.	CO ₃	L3	6M
	h	Illustrate redundancy and the problems that it can cause.	COA	T 0	
	D	The state of the s	CO ₃	L2	6M
_		UNIT-IV			
7		Discuss different phases (states) of transaction.	CO ₄	L2	6M
	b	Define Schedule. What is a serial schedule?	CO ₄	L1	6M
v		OR			0
8	a	What are the states of transaction?	CO ₄	L1	6M
	b	What are the two statements regarding transaction?	CO4	. L1	6M
		UNIT-V			
- 9	a	Write short note on Buffer management for management of data.	CO5	L3	6M
	b	Explain in detail about ISAM.	CO5	L3	6M
		OR	9 1 8	_	7/7
10	a	Explain different types of locks.	CO5	L2	6M
		Describe Times tamp based locking protocols.	CO5	L2	6M
				_	

O.P.Code: 19CS0550

R19

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech. II Year I Semester Supplementary Examinations October/November-2025 RELATIONAL DATABASE MANAGEMENT SYSTEM

		(Open Elective-I)	VI -		a 50 *1
	Tir	ne. 5 hours	Mar	e Mr.	arks: 6
		(Answer all Five Units $5 \times 12 = 60$ Marks)	WICE	Z. 1VI	arks: O
	1	UNIT-I			
	.1	a Explain about Views of data.	CO	1 L	2 6M
		b Explain about various data models.	CO		
		OR	0 1		1 01/1
	2	a Write a short note on ER model with an example.	CO	1 L	1 6M
		b List out the Disadvantages of DBMS.	CO		
		UNIT-II			1 01/1
	3	a Discuss about the use of renaming operator.	CO	2 L	6 6M
		b Define Join. Explain different types of joins.	CO2		
	9	OR		ō	e Olyn
	4	Construct the ER diagram for a company needs to store information	CO2	L	5 12M
		asout employees (Identified by SSn. with salary and phone or ethili-t)		25	12111
		departments (identified by ano, with dname and budget og attributed)		×	8 8
		and official of employees (With name and age as attributes). Employees	*		
		work in departments, each department is managed by an employee			
		clind must be identified uniquely by name when the parent (who is an			A
		complete, assume that only one parent works for the comment.		3.91	9
		known. We are not interested in information about a child once the parent leaves the company.	-		
			1.9		12
	5-	Discover chant M. A. I.		51	2
	<i>3</i>	a Discuss about Nested queries with an example.	CO3	L1	6M
21		b Write a short note on Correlated Nested queries with an example.	CO ₃	L1	6M
	6	a To solve:	3. 1	(7)	4 4 5
	•		CO ₃	L6	6M
	0	i. Write a query to find name and age of all sailors		2	
		ii. Write a Query to find the name of sailors who have reserved a red boat			- 4
			58		
N		iii. Write a query to find the name of sailors who have reserved at least one boat.		79.11	
	1	b Explain about Expression and string in Select command with an			0.00
10-		example.	CO ₃	L2	6M
7	35	Define normalization List and Fault 1150			1987
N		Define normalization. List and Explain different normal forms with examples.	CO ₄	L2	12M
				8	
8	a	Illustrate redundancy and the problems that it can cause.		0.1	540
	b	Explain about properties of decompositions	CO4	L3	6M
			CO4	L2	6M
9	a	Discuss how do you recover from failure.	147 II	-	
-	b	Explain about the deadlock provention set	CO5	L6	6 M
68			CO5	L2	6M
10		Classify various levels of RAID with neat diagrams			
		*** END ***	CO5	L4	12M
		FIID ***			

O.P.Code: :19CS0549

R19

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS) B.Tech. II Year I Semester Supplementary Examinations October/November-2025 LINUX PROGRAMMING

Tir	ne: 3 Hours (Open Elective-I)			
	(Answer all Five Units $5 \times 12 = 60$ Marks)	Max.	. Ma:	rks: 60
	$\frac{\text{UNIT-I}}{\text{UNIT-I}}$			* DE
* 1	a Express vi Editor and explain its modes.			
	b Brief explain about the commands used in the vi Editor.	CO1	L2	6M
	OR	CO1	L2	6M
2	a What are the file types available in Unix? Discuss file operators with		Ģ	. 3
	suitable examples?	h CO1	L1	6M
	b Illustrates about standard streams.		(8)	
	UNIT-II	CO1	L3	6 M
3	a Explain command substitution with example.			
	b Explain about Command Execution.	CO ₂	L2	6M
-	OR	CO2	L2	6M
4	a Distinguish between a user-defined variable and predefined variable.			
	b Define a Variable and distinguish between a variable and value.	CO ₂	L2	6M
		CO ₂	L2	6M
5	a How files with duplicate lines are handled in Unix?	ž.	2. 1	
	b Write a shell program for counting about 1	CO ₃	L1	6M
×	brogram for counting characters, words and line.	CO3	L1	6M
6	What information is presented when the following commands are entered?		8	5
	(i) cmp (ii) diff (iii) comm. (iv) cut (v) paste	CO ₃	L1	12M
		e _{m s}		
7 :	a What does a startup script consist of?		A .	
	b write the basic script concepts orientes with Korn shell.	CO4	L1	6M
		CO ₄	L ₁	6M
8 a	OR Discuss about Korn Shell and its Features?	0.00		
ł	Explain about file contents and its directories.	CO4	L2	6M
		CO4	L2	6M
9 a	How argument volidation in 1			
' h	a gament vandauon is dolle in csn?	CO ₅	L1	6M
, D	How debugging scripts work in csh?	CO5	L1	6M
10 a	Explain how the Environmental and 11			
b	The water Environmental variables are handled.	CO5	L2	6M
	*** FND ***	CO5	L1	6 M
	*** K	59		

O.P.Code: 19EC0448

R19

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech. II Year I Semester Supplementary Examinations October/November-2025 INTRODUCTION TO COMMUNICATION SYSTEMS

e Na	Fime: 3 Hours (Open Elective-I)	, i	·	
		Max.	Mar	ks: 60
	(Answer all Five Units $5 \times 12 = 60 \text{ Marks}$)			
	1 a What is amplitude modulation owners with the		¥	i - 15
	 a What is amplitude modulation express with mathematical equations? b Describe the elements of communication systems. 	CO1	L1	6M
		CO1	L2	6M
	OR 2 a Explain the superheterudyna receiver (AM PEGENIER)			
	2 a Explain the superheterudyne receiver (AM RECEIVER) with neat diagram.	CO1	L5	6 M
	b Discuss how to generate DSB-SC waves.	CO1	L6	6M
	UNIT-II	78	20	OIVI ,
	a Explain different types of Angle modulation techniques with	CO ₂	L2	6M
	mathematical equations.			OIVI
	b Compare PM & FM moduations.	CO2	L3	6M
	OR			OIVI
_ 2	Write down about Wideband FM modulation.	CO ₂	L4	12M
	UNIT-III	1.0		12111
: 5	busit notes on .	CO3	L3	12M
	i)Shot noise ii) Noise figure iii) SNR iv) Thermal noise v) White Noise	CO3	LS	1211
8	OR			
6	The state of the s	CO3	L2	6M
	What is the process of demodulation of DANA		L2	6M
	UNIT-IV	70	~~	0171
7	a Write down about a receiver of a PCM with block diagram.	CO4	L3	CNA
¥	b Explain different types of Quantizon		L2	6M
	OR	204		6 M
8	a What is delta modulation? Define it properly with diagram.	C O 4	L1	6M
	b Compare ASK RPSK & RESK		L4	6M
	UNIT-V		D T	OIVI
9	a Explain TDMA.	CO5	ſ E	CNA
9.	0 What is frequency reuse?		L5	6M
	OR	, 0 3 ,]	L1	6M
10	Explain a structure of a mobile collular and	CO5 1	L 2	12M
	*** END ***			TTIVE

O.P.Code: 19HS0813

R19

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS) B.Tech. II Year I Semester Supplementary Examinations October/November-2025 MANAGEMENT SCIENCE

(Open Elective-I)

Tir	ne:	3 Hours	0.		
		(Answer all Five Units $5 \times 12 = 60$ Marks)	Max. N	Iarks	: 60
3	1			15 53	
	1	Define and overlain in the			
		Define and explain in the management and its various functions.	CO ₁	L1	12M
		OR		100	
2		a Briefly explain the Weber 's Ideal Bureaucracy.	CO1	L2	6M
3	J	b Examine the Span of control.	CO1	L4	6M
		UNIT-II		27	OIVI
3	3	Discuss and Explain the various types plant layout with suitable		Τ.	s
		examples.	CO2	L2	12M
		OR			
4	a	TT 7 1			
	b		CO ₂	L1	6M
			CO ₂	L3	6M
5		Define training 2 F. 1 in 1		40	
J		Define training? Explain the types of the job training methods.	CO ₃	L1	12M
6		OR Discover 41			Sec. 1
U	a	and said y administration.	CO ₃	L2	6M
(#)	D	Describe the Job analysis.	CO ₃	L2	6M
		UNIT-IV	7		-
7		Examine the concept of corporate planning. Discuss the essential steps	CO4	L4	123/
		in corporate planning through a flow chart.	CO4	114 (1)	12M
- 64		OR	92		
8	a	Define PERT and importance in Network analysis	CO ₄	т 2	(3)
	b	Explain the nature of Project cost and its types		L2	6M
		UNIT-V	CO ₄	L1	6M
9	a	Discuss Management Information System (MIS) and How it works in an			
		organization.	CO ₅	L2	6M
	b				×
		State the needs for Supply Chain Management and its potential benefits.	CO ₅	L3	6M
10	9	OR Elucidate the importance of Sin Si			
	b	Elucidate the importance of Six Sigma in production. How is Bench Marking useful?	CO5	L4	6 M
3	I.		CO5	L3	6M
		*** END ***			

O.P.Code:19EE0240

R19

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech. II Year I Semester Supplementary Examinations October/November-2025 BASIC ELECTRICAL & ELECTRONICS ENGINEERING

(Mechanical Engineering)

Time: 3 Hours

Max. Marks: 60

*Note: Answer PART-A from pages 2 to 20 and PART-B from 21 to 39.

(Answer all Six Units 6 X 10 = 60 Marks)

PART-A

UNIT-I

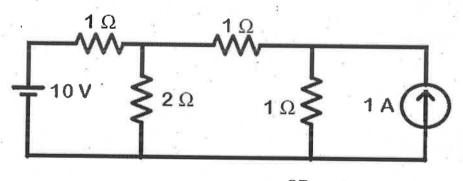
1	a State and explain Ohm's law.	CO1	L1	5M
8	b Explain in detail about passive elements.	 CO1	T.1	5M

OR

Define: (i) RMS value (ii) average value (iii) form factor (iv) peak factor CO1 L2 10M (v) Prove that the form factor of the sinusoidal wave is 1.11

UNIT-II

3	State Super position theorem	CO2	. L1	2M
	Calculate the current in 2Ω resistor in the given circuit using super	CO2	L3	8M
12	position theorem.	56		



OR

4	a	Explain in detail about Impedance parameters.	CO2	L2	5M	
* ;	b	Briefly discuss about Admittance parameters.	CO2	L2	5M	
		UNIT-III				
5	a	Derive Torque equation of dc motor.	CO3	L3	5M	
	b	Explain about constructional details of dc motor.	CO3	L2	5M	
		OR		9		
6	a	Derive the condition for maximum efficiency of the transformer.	CO3	L3	5M	i i
72	b	Discuss about the voltage regulation of the transformer.	CO ₃	L3	5M	

PART-B UNIT-IV

7	a	What is Doping? Describe P-and N-type semiconductors.	CO5	L2	5M
	b	Explain the behavior of PN junction diode.	CO5	L2	5M
		OR	51		
8	a	Draw the circuit diagram of a Bridge Rectifier and explain its operation	CO5	L3	5M
		with input and output waveforms.	v.		
	b	Discuss the operation of full wave rectifier with capacitor filter.	CO5	L2	5M
		UNIT-V			
9	a	Describe in detail the working of an NPN bipolar junction transistor. Why	CO4	L2	4M
		is it called Bipolar?	27		
	b	Explain with the help of diagrams various types of circuit configurations,	CO6	L3	6M
		which can be obtained from a bipolar junction transistor.			
		OR			
10	a	Write the application of a transistor and explain the transistor acts a	CO5	L2	5M
		switch.			
	b	Explain in detail the transistor working as a amplifier.	CO5	L2	5M
×		UNIT-VI			
11	a	Explain about the JFET and draw the construction of JFET(P Channel).	CO6	L3	5M
G	Ъ	Explain the operation of JFET(P Channel).	CO5	L3	5M
		OR	X 5		
12	a	Explain the static characteristics of MOSFET and draw its characteristics.	CO6	L3	6M
	b	·	CO5	L1	4M
		*** END ***			

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech. II Year I Semester Supplementary Examinations October/November-2025 ELECTRICAL CIRCUITS - II (Electrical & Electronics Engineering)

(Answer all Five Units $5 \times 12 = 60$ Marks)

Max. Marks: 60

a Derive the relationship between Phase and Line voltages, currents in star CO4 connected load. L3 M₀

b An unbalanced 4 wire star connected load has a balanced voltage of 400V. The load are Z1=(4+j8) Ω , $Z2=(5+j4)\Omega$, $Z3=(15+j20)\Omega$.Calculate line currents, current in neutral wire, total power. C04 L4 6M

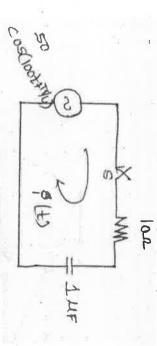
a A balanced delta connected load of (4+j3) Ω per phase is connected to a CO1 balanced 3¢ 440v supply. Find i) active power ii) reactive power iii) Apparent power. L3 6M

A 400V,3¢ supply feeds an unbalanced 3 wire star connected load. The branch impedances of the load are $ZR=(4+j8)\Omega$, $ZY=(3+j4)\Omega$, $ZB=(5+j20)\Omega$. Find the line currents and voltages across phase impedance. Assume RYB phase sequence. C04 L4

6M

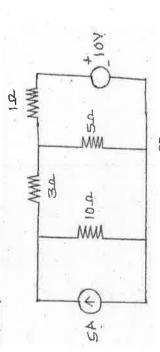
a Derive the transient response of an RL circuit with dc excitation. b A series RL circuit with R=30 Ω and L=15H has a constant voltage V=60V applied at t=0. Determine the current I, the voltage across the resistor and across the inductor. CO2 L4 L3 8M M

In the circuit shown in fig. Determine the complete solution for the current when switch is closed at t=0,applied voltage is $V(t)=50\cos(102t+\pi/4)$,resistance R=10Ωand capacitance c=1μF. C02 L3 12M

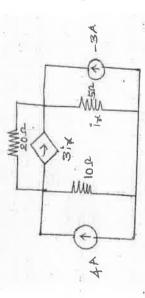


12M Determine current in 10Ω resistor for the following network by using CO3 L4 nodal analysis

S



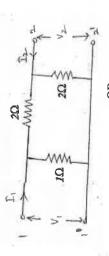
CO3 L5 12M OR Determine ix for the following network



CO5 a Derive the expressions for Z-parameters in terms of ABCD parameters
b Find the Z - parameters for the resistance network shown in figure

W9 W9

L3 L2

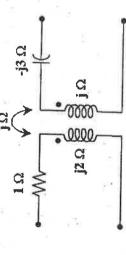


Obtain the T parameters of the following two port network

12M

2

C05



UNIT-V 9 a Define Laplace transform of a function.
 b Derive Laplace transform of all standard signals.

900 C00

There is no energy stored in the circuit shown in at the time the impulse voltage is applied.

Find (t) for t. 10

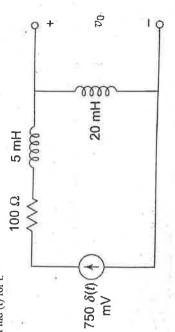
12M

L3

90**0**

6M 6M

22



*** END ***

O.P.Code: 19EC0402

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H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech. II Year I Semester Supplementary Examinations October/November-2025 ELECTRONIC DEVICES AND CIRCUITS

(Electronics & Communications Engineering)

Time: 3 Hours	(Electronics & Communications Engineering)	Max.	Mark	s: 60	,
	(Answer all Five Units $5 \times 12 = 60$ Marks)				
	UNIT-I				
1 a Define cut	in voltage of a PN Junction diode and give its values for Si	CO ₁	L1	4M	

and Ge diodes.
A p-n junction germanium diode has a reverse saturation current of 0.10 CO4 L5 8M μA at the room temperature of 27°C. It is observed to be 30μA, when the room temperature is increased. Calculate the new room temperature. Also determine the current passing through the diode at this new temperature.

OR

2	a	Define 2	Brea	kdown vo	ltage and	give the ci	ircuit sy	mbol for	Zen	er Diode.	CO ₁	L1	6M
	b	What i	s a	Clamper	circuit?	Describe	about	positive	and	negative	CO ₅	L1	6M
clampers with neat circuit diagrams.													

UNIT-II

3	a	With neat circuit diagram and waveforms, illustrate the construction and	CO ₁	L2	5M
		working of Bridge rectifier.			
	b	A $5\mathrm{K}\Omega$ load is fed from a bridge rectifier connected across a transformer	CO4	L5	7M

secondary whose primary is connected to 460V, 50 Hz supply. The ratio of number of primary turns to secondary turns is 2:1. Estimate dc load current, ripple voltage and PIV rating of diode.

OR

4	a	Explain dynamic scattering LCD and field effect LCD working with neat	CO ₃	L1	7M
		diagrams.			
	b	Explain the principle involved in working of Varactor diode and sketch	CO ₅	L2	5M

b Explain the principle involved in working of Varactor diode and sketch **CO5 L2** its characteristics.

UNIT-III

5	9	Explain the operation of NPN transistor with neat diagram.	CO1	12	7M
J	a	Explain the operation of NTN transistor with heat diagram.	COI		/ TAT
	b	With neat diagram, Interpret the Input and Output characteristics of a	CO ₅	L2	5M
		BJT in CB Configuration.			

OR

6	Explain the construction and working principle of N-channel JFET.	CO ₁	L2	12M
	UNIT-IV			

- 7 a Explain the concept of DC and AC Load lines and discuss the criteria for CO3 L2 7M fixing the Q-point.
 - b List the different types of Biasing a Transistor and explain the Fixed CO6 L4 5M Bias of a Transistor

8 Estimate the stability factors S, S' and S' of a BJT Voltage Divider bias. CO6 L5 12M

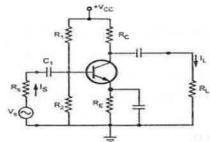
UNIT-V

- 9 a Why hybrid model is used for the analysis of BJT amplifier at low CO1 L1 8M frequencies? Draw the hybrid model for CE transistor and derive the hybrid parameters.
 - **b** Discuss about the frequency response of an amplifier.

CO1 L6 4M

OR

Consider a single stage CE amplifier with $R_s=1k\Omega$, $R_1=50k\Omega$, $R_2=$ CO2 L3 12M $2k\Omega$, $R_c=1k\Omega$, $R_L=1.2k\Omega$, $h_{fe}=50$, $h_{ie}=1.1k$, $h_{oe}=25\mu A/V$ and $h_{re}=$



 2.5×10^{-4} , as shown in Fig.Solve A_{I} , R_{i} , A_{v} , A_{vs} , A_{IS} and R_{0} .

*** **END** ***