

MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section2(f) & 12(B)of the UGC act,1956

III B.Tech I Sem Supply End Examination, December 2022 Metrology and Machine Tools

(Mechanical)

Time: 3 Hours.

Max. Marks: 70

Note: 1. Question paper consists: Part-A and Part-B.

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- 2. In Part A, answer all questions which carries 20 marks.
- 3. In Part B, answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART- A

(10*2 Marks = 20 Marks)1. a) What is taper turning CO1 BL1 2M b) How do you specify lathe machine 2M CO₁ BL1 c) What is drilling BL1 2M CO2 d) Give an example for multi point cutting tool CO₂ BL2 2M e) What is the use of grinding wheel CO3 BL1 2M List out types of indexing in milling CO3 BL2 2MWhat is tolerance 2MCO4 BL1 h) What is limit gauges CO4 BL1 2M Define surface finish 2M CO5 BL2 What is the use of talysurf CO5 BL1 2M PART-B (10*5 Marks = 50 Marks)

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2	a)	Sketch single point cutting tool show its nomenclature	5M	CO1	BL2		
	b)	What is metal cutting and explain in general	5M	CO1	BL1		
OR							
3	a)	List out types of metal cutting machines	5M	CO1	BL2		
	b)	Discuss on types of chips	5M	CO1	BL2		
4	a)	Explain radial Drilling operation with neat sketch	5M	CO2	BL2		
	b)	What is the function of slotting machine? explain it	5M	CO2	BL2		
OR							
5	a)	List out types of boring machines and its uses	5M	CO2	BL2		
	b)	What is the difference between drilling and boring operation	on 5M	CO2	BL1		

s parts 5M	CO3	BL1		
5M	CO3	BL1		
5M	CO3	BL2		
art 5M	CO3	BL1		
5M	CO4	BL3		
5M	CO4	BL1		
5M	CO4	BL2		
neat sketch 5M	CO4	BL1		
5M	CO5	BL2		
5M	CO5	BL1		
OR				
5M	CO5	BL2		
	CO5	BL1		
	5M	5M CO3 5M CO3 5M CO3 5M CO4 5M CO4 5M CO4 5M CO4 5M CO5 5M CO5 5M CO5		

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CO - Course Outcome

BL - Blooms Taxonomy Levels



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III B.Tech I Sem Supply End Examination, December 2022

Computer Networks

(CSE)

Time: 3 Hours.

Max. Marks: 70

- Note: 1. Question paper consists: Part-A and Part-B.
 - 2. In Part A, answer all questions which carries 20 marks.
 - 3. In Part B, answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART- A

(10*2 Marks = 20 Marks)

1.	a)	What are the types of twisted pair cable?	2M	CO1	BL1
	b)	List the four levels of addressing employed in TCP/IP protocols.	2M	CO1	BL2
	c)	What is a sliding window protocol? Where is it used?	2M	CO2	BL1
	d)	How is error controlled in data link controlled protocol?	2M	CO2	BL1
	e)	What are the goals and characteristics of routing algorithms?	2M	CO3	BL1
	f)	Mention the limitations of Distance Vector and Shortest path routing algorithms.	2M	CO3	BL2
	g)	If UDP is so powerless, why would a process want to use it?	2M	CO4	BL1
	h)	Define TCP?	2M	CO4	BL1
	i)	What is the purpose of DNS?	2M	CO5	BL1
	j)	Write the e-mail services of application layer.	2M	CO5	BL1

PART-B

(10*5 Marks = 50 Marks)

2	a)	List and explain the advantages of fiber optics over copper as a transmission medium.	5M	C01	BL3		
	b)	In the TCP/IP protocol suite, what are the identical objects at the sender and the receiver sites when we think about the logical connection at the application layer?	5M	CO1	BL2		
	OR						
3		Make a comparison between the TCP/IP and OSI Models.	10M	CO1	BL4		
4	a)	List and explain the data link layer design issues.	5M	CO2	BL3		
	b)	Consider the delay of pure ALOHA versus slotted ALOHA at low load. Which one is less? Explain your answer.	5M	CO2	BL2		

5		Explain sliding window protocol using Go back n and using selective repeat.	10M	CO2	BL4
6	a)	List and explain the elements of transport protocols.	5M	CÓ3	BL3
	b)	Discuss the congestion control in virtual circuit subnets.	5M	CO3	BL4
		OR			
7		With an example explain the Flooding, Hierarchical routing algorithms used in computer networks.	10M	CO3	BL4
8	a)	List and explain Transport Services	5M	CO4	BL3
	b)	The following is a dump of a UDP header in hexadecimal format. CB84000D001C001C, what is the source port number?	5M	CO4	BL2
		OR			
9		Compare and contrast the two TCP/IP transport protocols: TCP and UDP, in terms of de multiplexing, reliability and flow control	10M	CO4	BL4
1	0 a)	Discuss the e-mail architecture and services.	5M	CO5	BL3
	b)	Explain DNS with reference to its components and working.	5M	CO5	BL2
OR					
1	1	Write a short note on the following: a) World WEB b) HTTP	10M	C05	BL2

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