Code No: 125DT JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, January/February - 2023 COMPUTER NETWORKS (Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

(25 Maula)

Note: i) Question paper consists of Part A, Part B.

- ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
- iii) 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

		(25 Marks)
1.a) b) c) d) e) f) g) h) i) j)	What are the uses of Computer Network? What is piggy backing technique? When and why is it used? What is bit stuffing? Give an example. What is the use of gateway and router? What is optimality principle? Write a brief note on store and forward packet switching. What is tunneling? Give a short note on IP addresses. What is the function of transport layer? What is the use of HTTP and FTP protocols?	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3]
	From PART - B	
	dea.	(50 Marks)
2.	Explain various and their functions of TCP/IP reference model.	[10]
3.	Explain the stop-and-wait protocol and selective repeat protocol.	[10]
4.	Explain the CSMA/CD protocol in detail.	[10]
5.	OR Describe the need and use of various network devices.	[10]
6.	Explain the working principle of the Hierarchical routing protocol.	[10]
7.	Explain the token bucket algorithm. Write down its advantages and disadva	ntages.[10]
8.	Discuss IMCP and DHCP protocols in detail. OR	[10]
9.	Explain the elements of transport protocol.	[10]
10.a) b)	Explain the TCP service model. Draw the TCP header and explain various fields. OR	[5+5]
11.	Explain the TELNET and DNS in detail.	[10]

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