## Code No: 155AN JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, August - 2022 COMPUTER NETWORKS (Computer Science and Engineering)

## **Time: 3 Hours**

## Answer any five questions All questions carry equal marks

Max. Marks: 75

1.a) b)	What is the importance of layered architecture in network models? Discuss in deta Differentiate between TCP/IP network model and ISO-OSI reference model.	ail. [7+8]
2.a) b)	Discuss about Network hardware components in detail. What are the advantages of fiber optic cables? Explain with a neat sketch.	[7+8]
3.a) b)	What are the design issues of Data Link Layer? Explain in detail. Compare and contrast CSMA/CD and CSMA/CA for channel allocation.	[7+8]
4.	What are various types of Error Detection methods? Explain about Cyclic Redund Check Error Detection Method with suitable example.	lancy [15]
5.a) b)	Define Routing. Explain Distance Vector Routing Algorithm with an example. What are the advantages and limitations of flooding?	[9+6]
6.a) b)	Describe link state vector routing algorithm example. How to achieve quarter of service using leaky bucket algorithm.	[7+8]
7.a) b)	Explain connection management in transport layer. Compare and contrast TCP and UDP Protocols.	[7+8]
8.a)	What are the major components in E-mail system? And explain the role of SMTP sending and receiving messages.	for
b)	Discuss about HTTP request and response mechanisms.	[8+7]

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