

Code No: 155AN

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year I Semester Examinations, February - 2022****COMPUTER NETWORKS****(Computer Science and Engineering)****Time: 3 hours****Max. Marks: 75****Answer any five questions  
All questions carry equal marks**

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- 1.a) Compare OSI and TCP/IP reference model.  
b) Explain about various transmission media in physical layer with a neat sketch. [7+8]
- 2.a) What is the purpose of CSMA CD? And Explain it.  
b) Write and explain about various multiple access protocols. [7+8]
3. Explain the functions of following devices:  
a) Hub  
b) Bridge  
c) Router  
d) Gateway. [4+4+3+4]
- 4.a) Write briefly about Congestion control in datagram subnets.  
b) What is internetworking? List out the internetworking devices. [7+8]
5. Demonstrate how to make routing table using distance vector routing and list down the limitations. [15]
- 6.a) What are the services provided by transport layer to the upper layers?  
b) Explain the connection establishment and release in transport layer. [7+8]
- 7.a) What is DNS? What are the services provided by DNS?  
b) How Streaming of audio and video can be done? [7+8]
- 8.a) How would you summarize the concepts of E-mail, its architecture and services?  
b) Elaborate on SNMP with an example. [7+8]

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