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**VI Semester B.Sc. Degree Examination, September - 2021****COMPUTER SCIENCE****Computer Networks****(CBCS Scheme Freshers 2016-17 Onwards)****Paper : VIII****Time : 3 Hours****Maximum Marks : 70****Instructions to Candidates:**

Answer all the sections.

**SECTION - A****I. Answer any TEN questions. Each question carries TWO marks.****(10×2=20)**

1. Define computer networks and internet.
2. What is Email and URL?
3. Differentiate between half and full duplex communication.
4. Define packets and frames.
5. What is modulator and demodulator?
6. What is meant by CSMA/CD?
7. What is Repeater?
8. Write short notes on SONET.
9. Define WAN and LAN.
10. Mention the layers in TCP/IP protocol.
11. Define WWW.
12. What is packet switching?

**SECTION - B****II. Answer any 5 questions. Each question carries TEN marks.****(5×10=50)**

13. a) Write a note on growth of computer networking. (5)
- b) Explain the various transmission media. (5)
14. Explain the different types of multiplexing. (10)
15. What are the different techniques of error detection? Explain. (10)

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16. Explain the types of network topologies. (10)
17. Explain the 7 layers of O.S.I. model with suitable diagram. (10)
18. a) What are the characteristics of network performance? (3)  
b) Write short notes on UDP. (7)
19. Explain  
a) Classes of IP addresses. (5)  
b) ARP. (5)
20. Explain  
a) Transmission control protocol. (5)  
b) DNS. (5)
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