

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech.(CSE)/(IT) (2012 to 2017) (Sem.-4)

COMPUTER NETWORKS-I

Subject Code : BTCS-403

M.Code : 56606

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt ANY FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt ANY TWO questions.

SECTION-A

Answer briefly :

1. Differentiate between LAN, MAN and WAN.
2. Differentiate between broadcast and point-to-point networks.
3. Explain in brief the term Distortion in reference to transmission impairments.
4. What are the advantages of Twisted pair as a transmission media?
5. Explain the term Hamming code in reference to error detecting codes.
6. Explain the term Framing in brief.
7. Compare pure and slotted ALOHA protocols.
8. Explain the term subnetting in brief.
9. Explain the term De-multiplexing in brief.
10. What do you mean by Domain Name System? Discuss.

SECTION-B

11. Explain the following in brief :
 - a) Frequency Division Multiplexing
 - b) Time Division Multiplexing
12. a) Write a brief note on PPP protocol.
b) Explain in brief about any two Network topologies.
13. Write a detailed note on static and dynamic channel allocation.
14. Write a brief note on TCP and UDP protocols. Also compare TCP and UDP protocols.
15. Write a brief note on E-mail and FTP.

SECTION-C

16. Write a detailed note on the ISO-OSI reference model.
17. Explain the link state Routing Algorithm with an example.
18. Write a detailed note on Checksum and CRC in reference to Error detection and Correction codes.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.