

[Total No. of Questions - 11] [Total No. of Printed Pages - 2]
(2124)

1894

MBA 4th Semester Examination
Data Communication & Networks (NS)
IT-04

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

SECTION - A

Attempt all questions. Each question carries 2 marks.

1. (a) What is synchronous and asynchronous mode of data transfer?
- (b) What is FDMA and how it is different from CDMA?
- (c) Which principle of optics is followed in data transmission through optical fiber?
- (d) What NIC stands for and its function in computer network?
- (e) Name the different layers of OSI model.
- (f) Difference between broadcasting and multi casting.
- (g) What is Concept of tunneling?
- (h) Write the different modes of communication.
- (i) Define WAP, WML.
- (j) What is VPN? (10×2=20)

[P.T.O.]

SECTION - B

Attempt any four questions. Each question carries 5 marks.

2. What is hamming code and how it is used to detect and correct error in transmitted data?
3. Distinguish between star, bus and ring LAN topologies with suitable examples?
4. Explain networking in LINUX.
5. What are socket and port? How they differ from each other?
6. Explain the function of HUB, switch and router in networking.
7. What are different transmission impairments? How they affect the data transmission? (4×5=20)

SECTION - C

Attempt any two questions, Each question carries 10 marks.

8. What is IP addressing. Explain the different class of IP address? How the class of IP 192.170.30.112 can be detected using sub net mask?
 9. Explain the various ways of transmission of data. List the wired and wireless ways of data transmission.
 10. Explain the function of various layers of OSI model. Name the layer responsible for encryption of data.
 11. Explain the terms 'Terrestrial Microwave', 'Broadcast radio', 'Infrared and Light waves'. (10×2=20)
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