

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
(For Candidates admitted during the academic year 2004-05 & thereafter)

SUBJECT CODE : CA/MC/NC34

B.C.A. DEGREE EXAMINATION – NOVEMBER 2007
THIRD SEMESTER

REG. NO. : _____

COURSE : MAJOR CORE
PAPER : NETWORKING CONCEPTS
TIME : 20 MINUTES

MAX. MARKS : 20

TO BE ANSWERED ON THE QUESTION PAPER ITSELF :

SECTION – A

(20X1=20)

Fill in the following blanks :

1. The voice band channels are able to speed up the transmission rate between _____ to _____ bits per second.
2. _____ are devices that can transmit as well as receive electric signals on the transmission media.
3. When the data link layer formats raw bits, the units of data that result are generally called _____.
4. The next level of miniaturization of computers is the _____.
5. DSL service is known as _____ which provides a DSI bit rate.

Mark True or False :

6. There are three forms of Data Transmission.
7. Networks commonly use universal table.
8. The Router connects to the network backbone is the active hub.
9. Wireless LANs will never replace fixed wiring media.
10. Universal service decreases individual productivity.

Choose the Best Answer :

11. Communication channels are of _____ types.
a) 4 b) 3 c) 2 d) 1
12. _____ schemes are biased infavour of the lower numbered workstations.
a) CSMA b) CSMA/CD c) CSMA/CA d) Polling
13. _____ refers to a set of rules between dissimilar processes.
a) Protocol b) Interface c) Virtual communication path d) handshaking

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SECTION – B **(8X5=40)**

ANSWER ANY EIGHT QUESTIONS

1. Explain the methods of Data Transmission.
2. Describe the two basic types of Computer Networks.
3. Explain the factors involved in Polling Evaluation.
4. Explain the Distributed Data Processing.
5. Describe CSMA and CSMA/CA.
6. Briefly explain LAN protocol.
7. Describe the components of Wireless LANs.
8. Explain Wireless LANs vs Wired LANs.
9. Explain the Internet Architecture.
10. Describe the virtual Network.

SECTION – C **(4X10=40)**

ANSWER ANY FOUR QUESTIONS

11. In detail explain the two forms of Data Transmission.
12. Explain the basic elements in Networking.
13. In detail explain the OSI model.
14. Describe the different common network services.
15. List out the Advantages of Wireless LANs.
16. Write short notes on
 - (i) Cable Modem Technology
 - (ii) SONET

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