

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086  
(For Candidates admitted during the academic year 2007-08)

SUBJECT CODE : CS/MC/NC34

B.C.A. DEGREE EXAMINATION – NOVEMBER 2008  
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 most common UTP connector is called \_\_\_\_\_.
2. Layer two lies between the physical layer and the \_\_\_\_\_ layer.
3. In fiber optics, the signal source is \_\_\_\_\_ waves.
4. A \_\_\_\_\_ can transform non SMTP mail to SMTP format and Vice Versa.
5. \_\_\_\_\_ are rules that govern data communication.

Choose the Best Answer :

6. Viruses are a network \_\_\_\_\_ issue.  
a) Performance      b) reliability      c) security
7. A \_\_\_\_\_ connection provides a dedicated link between two devices.  
a) Point-to-point      b) Multipoint      c) Primary
8. In a \_\_\_\_\_ topology, if there are n devices in a network, each device has (n-1) ports for cables.  
a) mesh      b) star      c) bus
9. Decryption and Encryption of data are the responsibility of the \_\_\_\_\_ layer.  
a) physical      b) data link      c) presentation
10. Which of the following are bridge types  
a) simplex, complex, transparent  
b) simplex, transparent, multipoint  
c) complex, transparent, multipoint
11. Transmission media are usually categorized as  
a) fixed or unfixed      b) guided or unguided      c) determinate or indeterminate

- 12. Which of the following can be handled by a gateway  
a) packet resizing      b) data encapsulation      c) protocol conversion
- 13. Which OSI layer corresponds to the IP layer  
a) data link      b) network      c) transport
- 14. \_\_\_\_\_ can request a service.  
a) A Socket Interface      b) A Client      c) A Server
- 15. Giga bit Ethernet has a \_\_\_\_\_ datarate than fast Ethernet and a \_\_\_\_\_ collision domain.  
a) higher, higher      b) higher, lower      c) lower, higher

**True or False :**

- 16 The TCP/IP was developed prior to the OSI model.
- 17 The TCP is a connectionless protocol.
- 18 The session layer takes care of translation.
- 19 NVT stands for Network Virtual Terminal.
- 20 SNMP is a network management protocol.



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**TIME : 2 HOURS & 40 MINUTES** **MAX. MARKS : 80**

**SECTION – B** **(8X5=40)**

**ANSWER ANY EIGHT QUESTIONS**

1. Define and explain various topologies.
2. What is an Internet? Give brief history of the Internet.
3. Write in detail about Twisted Pair Cable.
4. Write in detail about serial and parallel transmission.
5. List the layers of the OSI model. Group the OSI layers by function.
6. Write about Fast Ethernet.
7. Write about Network Address Translation.
8. What are the different protocols and standards in data communication?
9. Write in detail about Blue tooth Architecture.
10. Write in detail about DNS.

**SECTION – C** **(4X10=40)**

**ANSWER ANY FOUR QUESTIONS**

11. Explain the different layers of the OSI model.
12. Write in detail about Network Addressing.
13. Write in detail about fiber optic cable.
14. Write the frame format of ethernet, explain the thick and thin ethernet with example.
15. Write in detail about TELNET.
16. Write in detail about Routers and Gateways.

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