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.
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- 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 .
- DSL service is known as ______ which provides a DSI bit rate. 5.

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 :

1.	Communication channels are of		ty	types.	
	a) 4	b) 3	c) 2	d) 1	
2.	<u>1 , , , , , , , , , , , , , , , , , , ,</u>	schemes are bia	ased infavour of the lo	wer numbered	
	workstations. a) CSMA	b) CSMA/CD	c) CSMA/CA	d) Polling	
3.			ules between dissimila	*	

a) Protocol b) Interface c) Virtual communication path d) handshaking

controls the L	AN & provides for the end user's acces	S		
onto the network.				
a) Persistent carrier sense	b) non-persistent			
c) Protocol control logic component	d) Repeater			
When the end user device does not proprinted circuit boards call				
a) Network Interface Card	b) Transceiver			
c) Transmission Media Adapter	d) Bridge			
The forms a kind of session/presentation layer upon which applications are built.				
a) Packet Switched Network	b) Routing tables			
c) Windows Sockets API	d) TCP/IP			
Short haul = ? a) 1000's feet b) 100's feet	c) 10's feet d) 1's feet			
Units that can support the inter connection from one LAN to another at the wireless layer is				
a) LAPTOP computers	b) Personal Digital Assistants			
c) Pen Based computers	d) Portable Bridges & Transceivers			
In VDSL terminology, a concentratic point is called				
a) DSL b) SDSL				
A is a special purpose computer dedicated to the task of interconnecting networks.				
a) Virtual computers	b) Internet protocols			

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COURSE	: MAJOR CORE
PAPER	: NETWORKING CONCEPTS
TIME	: 2 HOURS & 40 MINUTES

MAX. MARKS: 80

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