STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086 (For candidates admitted during the academic year 2008-09 & thereafter)

SUBJECT CODE: CS/MC/NC44

B.C.A. DEGREE EXAMINATION, APRIL 2012 FOURTH SEMESTER REG. NO.

COUR PAPE TIME	R : NET	OR CORE WORKING CONCI INUTES		MAX. MARKS: 20			
Answe	TO BE ANS	Section WERED ON THE Q	- A QUESTION PAPER I	(20 x 1 =20) TSELF			
I. Cho	ose the correct answ	er:					
1.	In which topology, each device has a dedicated point to point link only to a central controller						
	a. Star	b. Mesh	c. Bus	d. Ring			
2.	Which protocol is responsible for higher level functions such as segmentation, reassembly and error detection						
	a. User Datagram Prc. Transmission Cor		b. Internet Protocold. Simple Mail Transfer Protocol				
3.	Transmission media a. Data Link Layer		c. Application Layer	r d. Physical Layer			
4.	BNC Connectors are a. UTP	e used by b. STP	c. Coaxial Cable	d. Fiber Optic			
5.	What is the main fur a. Routing	nction of the Transpor b. Mail Services	t Layer? c. Remote Login	d. Port Addressing			
6.	The passing of the data and network information between the layers of the sending and receiving devices is made possible by						
	a. Protocol	b. Interface	c. Dialog	d. Program			
7.	Identify the Class of a. Class A	the IP Address 191.1 b. Class B	.2.4 c. Class C	d. Class D			
8.	Which of the follow a. Reverse	ing domain is used to b. Inverse	map an address to a na c. Generic	ame? d. Country			
9.	A wireless LAN use a. Management	s fra b. Control	mes. c. Data	d. All the above			
10.	Which topology is u a. Bus	sed in the 10BaseT E b. Star	thernet? c. Ring	d. Mesh			

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II. Fill up the blanks:

11.	The set of rules that governs the data communication is called as					
12.	transports electromagnetic waves without the use of a physical					
	conductor.					
13.	Layer is responsible for the source to destination delivery of a packet					
across multiple networks						
14.	DNS Server creates , maintains and updates the zone file.					
15.	is the data rate of Gigabit Ethernet.					

III. State True or False

- 16. A digital signal is a composite signal with a finite bandwidth.
- 17. Asynchronous transmission will have 1 start bit (0) and 1 or more stop bits (1).
- 18. The application layer enables the users to access the network.
- 19. The wireless LAN Access method is CSMA/CD.
- 20. Ethernet is the most widely used Local Area Network Protocol.

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COURSE : MAJOR CORE

PAPER : NETWORKING CONCEPTS

TIME : 2½ HOURS MAX. MARKS : 80

Section – B $(8 \times 5 = 40)$

Answer any eight questions:

- 1. Discuss on various Data Representation Formats.
- 2. Explain about the various categories of Network Topologies with their Advantages and Disadvantages.
- 3. What are the advantages of Parallel Transmission?
- 4. Discuss on the Layered Architecture of the Network Model.
- 5. Explain the Peer to Peer Processes with a neat diagram
- 6. Explain about the DNS in Internet.
- 7. Explain how CSMA/CD procedure handles Collisions.
- 8. Discuss on various classes of IP addresses.
- 9. Explain about various categories of traditional Ethernet.
- 10. Explain about the MAC sub layer implementation in detail.

Section–C $(4 \times 10 = 40)$

Answer any four questions:

11. Explain the following Connecting devices

i. Hubs ii. Bridges (5+5)

- 12. Explain about Serial Transmission with the categories in detail.
- 13. Discuss on Fiber Optic Cable in Detail.
- 14. Briefly explain about the following layers
 - i. Network Layer

ii. Data Link Layer (5+5)

15. Discuss on the following concepts. (5+5)

- (i) Network Address Translation
- (ii) Blue tooth Technology
- 16. Explain the IEEE 802.11 Specifications for a Wireless LAN.
