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## SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH/APRIL 2018

(CUCBCSS-UG)

## Computer Science

		BCS 6B 14—COMPUTER NETWORKS	
Time	: Th	ree Hours Ma	aximum : 80 Marks
1	. Aı	nswer all questions. Each question carries 1 mark:	
	1	CSMA stands for ———.	
	2	is the connectionless, unreliable transport protocol.	
		is a client server general purpose application program for remot	e logging.
	4	If the physical links are shared by more than two nodes, it is said to be M	ultiple Access.
		The minimum number of wires needed to send data over a serial comm	nunication layer is
X	6	The data unit in the TCP/IP application layer is called ———.	
	7	———— is designed to provide communications between two mobile stati mobile unit and one land unit.	ons or between one
	8	The algorithm that manages the tables and makes the routing decisions i	s called ———.
	9	The number of bits in an IPV4 address is ———.	
	10	SMTP stands for ———.	
			$(10 \times 1 = 10 \text{ marks})$
II.	An	swer all questions. Each question carries 2 marks:	
	11	How does a single bit error differ from burst error?	
	12	How is a hub related to a repeater?	
	13	What are the two flow control mechanisms used in data link layer?	
	14	What are different types of errors that will occur in data transmission?	
		What do you mean by congestion?	
III.	Ans	wer any five questions. Each question carries 4 marks :	$(5 \times 2 = 10 \text{ marks})$
	16	Explain error detection and error correction with the help of an example	
	17	What is NAT? How can NAT help in address depletion?	

- 18 Explain CSMA and its uses.
- 19 What is a mask in IPV4 addressing? What is the default mask in IPV4?
- 20 What is the need of cryptography?
- 21 Explain distance vector routing.
- 22 What do you mean by remote procedure call?
- 23 Discuss the four basic topologies in terms of line configuration.

 $(5 \times 4 = 20 \text{ marks})$ 

## IV. Answer any five questions. Each question carries 8 marks:

- 24 Compare IPV4 and IPV6 addressing.
- 25 Explain the bluetooth architecture and applications in detail.
- 26 Discuss about different internetworking devices.
- 27 Explain different Routing algorithms.
- 28 Compare flow control and error control in detail.
- 29 Describe the two groups of multicast routing protocols.
- 30 Explain about the application layer services.
- 31 Write notes on the following:
  - (a) FTP.
  - (b) TFTP.
  - (c) SMTP.
  - (d) POP.

 $(5 \times 8 = 40 \text{ marks})$