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## FIFTH SEMESTER B.C.A. DEGREE (SUPPLEMENTARY) EXAMINATION NOVEMBER 2017

(UG-CCSS)

## CA 5B 09—COMPUTER NETWORKS

Tim	ie:	Thre	ree Hours Maximum : 30 W	/eightage		
	I.	Ans	aswer all twelve questions:			
.•		1	is the packet-switched network funded by ARPA.			
		2	Number of links to connect n nodes in a mesh topology is ———.			
	. '	3	is the difference between the highest and the lowest frequencies of a signal.	composite		
		4	Error control is the responsibility of ———— layer.			
		5	The independent data unit in a packet switched network is called a ———.			
		6	Token bus was standardized by IEEE standard ———.			
		7	is abbreviated as LLC.			
		8	3 10Base2 implementation of Ethernet is also called as ———.			
		9	is a packet sent by a router to the source to inform it of congestion.			
		10	SMTP stands for ———.			
		11	A device installed between the internal network of an organization and the rest of the to provide security is called ———.	e Internet		
		12	2 ——— is abbreviated as MIME.			
			$(12 \times \frac{1}{4} = 3 \text{ w})$	reightage)		
- ]	II.	Ans	nswer all nine questions:			
		13	B Explain Star topology.			
		14	4 What is MAN?			
		15	List the functions performed by the physical layer of 802.3 standards?			
		16	6 What is FDDI?			
		17	What is the use of bridges in networking?			
		18	8 What is UDP?			

Turn over

- 19 What is HTTP?
- 20 What is public key and private key in network security.
- 21 What is DES?

 $(9 \times 1 = 9 \text{ weightage})$ 

## III. Answer five questions from seven:

- 22 Write a note on session layer of OSI model.
- 23 Write a note on twisted pair wires.
- 24 Differentiate between pure-ALOHA and slotted- ALOHA.
- 25 Explain CSMA/CD protocol in detail.
- 26 Explain the shortest path routing algorithm.
- 27 Differentiate between TCP and UDP.
- 28 Explain the different security services.

 $(5 \times 2 = 10 \text{ weightage})$ 

## IV. Answer two questions from three:

- 29 Explain the different kinds of switching techniques.
- 30 Explain in detail IEEE 802.4 and IEEE 802.5.
- 31 Define cryptography. Explain the various ciphers used in asymmetric key cryptography.

 $(2 \times 4 = 8 \text{ weightage})$