COMPUTER NETWORKS

(For those who joined in July 2008 and after)

Time: Three hours

Maximum: 75 marks

SECTION A $-(10 \times 1 = 10 \text{ marks})$

Answer ALL questions.

Choose the correct answer:

1.		rconnected rmation alto		es	used	when	the	
	(a)	Simplex		(b)	Hal	f-Duple	x	
	(c)	Full-Dupl	ex	(d		allel		

- 2. The network topology in which devices are not linked to each other and where hub acts as a central controller is topology.
 - (a) Mesh (c) Ring (d) Tree
- Which media does not come under the guided media?
 - (a) Fiber Optics (b) Coaxial Cable (c) Microwave (d) Twisted Pair

		er is t	the lowest layer of the		
	model.	(h)	Network		
	Presentation				
(c)	Transport	(a)	Physical		
In mechanism ,one data frame is sent at a time and is acknowledged.					
(a)	Simplex	(b)	Stop-and-wait		
(c)	Sliding Window	(d)	Duplex		
HDI	C stands for —				
(a)	High Level Data	Link	Control		
(b)	High Data Level	Conti	rol		
(c)	Heavy Data List	Conti	rol		
(d)	High Device Lev	el Cor	itrol		
CSMA/CD stands for —					
(a)	Carrier Sense M. Detection.	lultipl	e Access with Collision		
(b)	Common Sense Disk.	Multi	Access with Compact		
(c)	Carrier Stand Common Data.	ard	Many Access with		
(d)	Common Sens Collision Detect		ultiple Adapter with		
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8.	fibre as transmission medium.						
	(a)	Token Bus	(b)	Token Ring			
	(c)	FDDI	(d)	CSMA			
9.	Communication via ———————————————————————————————————						
	(a)	Message	(b)	Circuit			
	(c)	Packet	(d)	Token Ring			
10.	In ISDN, Bearer Channel operates at a rate of KBps.						
	(a)	16	(b)	32			
	(c)	64	(d)	128			
		SECTION B —	$-(5 \times 7 =$	35 marks)			
	Answ	er ALL questions	, choosii	ng either (a) or (b).			
11.	ta Communication mponents.						
	(b)	Write Short Classifications.		es on: Network			
12.	(a)	Discuss about Transmission M.		y TWO Guided			
	(b)	Write Short Not	es on: C	RC and Checksum. 4557/SCS8A52 SCS9A52			

13. (a) Discuss in detail, Stop-and-Wait Flow Control.

Or

- (b) Discuss briefly on :HDLC.
- 14. (a) Write about Ethernet.

Or

- (b) What is FDDI? Explain.
- 15. (a) Discuss briefly on: Packet Switching.
 Or
 - (b) Discuss in detail, Broadband ISDN.

SECTION C - (3 × 10 = 30 marks)

Answer any THREE questions.

- 16. Explain about Layered Architecture of the OSI reference model.
- 17. Describe in detail, Unguided Transmission Media.
- 18. Describe about Sliding Window Protocol.
- 19. Explain about Token Bus LAN.
- 20. What are ISDN layers? Explain their functions.

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