(6 pages)	Reg. No. :	2.	Which hub?		res a	central controller or	
Code No.: 8076	Sub. Code: PCAM 53		(a)	Mesh	(b)	Star	
Coustian			(c)	Bus	(d)	Ring	
M.C.A. (CBCS) DEGREE EXAMINATION, NOVEMBER 2019.		3.	form	mean or shape	s that	the signal changes its	
Fifth Semester			(a)	Distortion	(b)	Noise	
Computer Application — Core			(c)	Attenuation	(d)	Both (a) and (b)	
DATA COMMUNICATIONS AND NETWORKS		4.	is the process of converting digital data to digital signals				
(For those who joined in July 2017 onwards)			(a)	Line coding			
Time: Three hours Maximum: 75 marks			(b)	Block coding			
PART A — $(10 \times 1 = 10 \text{ marks})$ Answer ALL questions.			(c)	Parallel transmi	ssion		
			(d)	Delta modulation			
Choose the correct answer:		5.	The	The most common twisted-pair cable used in communications is referred to as			
1. A computer	ter network permits sharing of	121	(a)	UTP	(b)	STP	
			(c)	ECP	(d)	UTTP	
(a) Resources		6.	Tra	Transmission media are directly controlled by the			
(b) Information							
(c) Both (a) a	Both (a) and (b)  None of the above		(a)	Physical layer	(b)	Data link layer	
			(c)	Network Layer	(d)	Session layer	
(d) None of t	ne above			Pa	ge 2	Code No.: 8076	

7.	How many bits in data unit has changed in single bit error?								
	(a)	Only 1 bit		(b)	Two bits				
	(c)	Three bits		(d)	Four bits				
8.	In half duplex mode of a MAC sub layers stations are connected via								
	(a)	Switch		(b)	HUB				
	(c)	Bridge		(d)	Bus				
9.	The network layer concern with								
	(a)	Bits		(b)	Frames				
	(c)	Packets		(d)	Bytes				
10.	ICMP is primarily used for ————								
	(a) error and diagnostic function								
	(b)	addressing							
	(c)	forwarding							
	(d)	None of the	se						
			Page	e 3	Code No. : 8076				

PART B -  $(5 \times 5 = 25 \text{ marks})$ 

Answer ALL questions by choosing either (a) or (b).

Each answer should not exceed 250 words.

 (a) Define topology, Explain the types of topology with neat diagram.

Or

- (b) Write short notes on Transport Layer in TCP/IP.
- 12. (a) Describe about Amplitude Shift Keying.

Or

- (b) Criticize about Block coding.
- 13. (a) Discuss the Twisted-Pair Cable.

Or

- (b) Write short notes on Microwaves.
- 14. (a) Explain about Error Detection.

Or

(b) Describe the multiplexing in point-to-point protocol.

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[P.T.O.]

15. (a) Analyze the Packet Format of IPv6 Protocol.

Or

(b) Write short notes on Unicast, Multicast and Broadcast.

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

Answer ALL questions by choosing either (a) or (b).

Each answer should not exceed 600 words.

 (a) Define Protocol. Write detailed notes on Layered tasks.

Or

- (b) Demonstrate about OSI Model.
- 17. (a) Summarize the Transmission Impairment.

Or

- (b) Elucidate the Analog-to-Analog Conversion.
- 18. (a) Determine the Unguided media Wireless transmission.

Or

(b) Explain briefly about Circuit Switched Network.

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19. (a) Illustrate Minimum Hamming Distance.

Or

- (b) Demonstrate about Fast Ethernet.
- 20. (a) Criticize about IPV6 Addressing.

Or

(b) Write brief notes on Routing Protocols.

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