1208E194

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BCA Sem-5 Examination

CC 302

Computer Network (New)

Time: 2-00 Hours

August 2021

[Max. Marks: 50

Instructions: All questions in **Section I** carry equal marks. Attempt any **TWO** questions in **Section I**. Question V in **Section II** is **COMPULSORY**.

Section I

- QIA. What is Data Communication? Explain characteristics of Data Communication. Also Explain Digital signal and analog transmission with Modem.
 - B. Write a short note on following:

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- a. Parallel and Serial Communication.
- b. Simplex, Half-duplex and full-duplex communication with example and diagram.
- Q II A. What is Multiplexing? Also write a short note on FDM and TDM with its types. 10 B. Explain two types of error. Also write a short note on Parity check and Stop-and-wait
 - B. Explain two types of error. Also write a short note on Parity check and Stop-and-wait methods.
- O III A. Write a short note on guided media

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B. Write a short note on any five topologies.

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Q IV A. Explain all seven layers of OSI model.

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B. Write a short note on Repeaters and Routers. Also Explain ISDN interface.

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Section II

Q V MCQs (Any 5 x 2 marks each)

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- (i) When an analog signal suffers attenuation during transmission, _____ are used to amplify original signals.
 - a. Amplifiers
 - b. Repeaters
 - c. Noise
 - d. Modulation
- (ii) Parallel transmission is used for _____ distance.
 - a. Short
 - b. Long
 - c. Very Long
 - d. All of these
- (iii) Which of the following is an example of simplex transmission mode?
 - a. Television
 - b. Walky-talky
 - c. Two-way-lane
 - d. None of these

[PT.0]

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(iv)	In	multiplexing technique time slice is allocated to all the nodes, even if	
	it has no data to transmit.		
	a.	TDM	
	b.	STDM	
	c.		
	d.	FDM	
(v)	In whi	ich method of error detection, sender appends a single additional bit called	
	parity		
		VRC	
	b.	Modular sum	
	c.	CRC	
	d.	Checksum	
(vi)		multiplexing technique uses optical fiber as the communication	
	medium.		
	a.	WDM	
•	b.	FDM	
	c.	TDM	
	d.	STDM	
(vii)		topology is a complete topology.	
	a.	Tree	
	b.	Mesh	
	c.	Hybrid	
	d.	Bus	
(viii)	In	each packet is considered totally independent @ from all other packets	
	and fo	llow different path to reach to the destination.	
	a.	Circuit Switching	
	b.	Datagram Approach	
	c.	Message Switching	
	d.	Virtual Circuit Approach	
(ix)	FDDI	stands for	
	a.	Fiber Distributed Data Interface	
	b.	Fiber Distance Data Interface	
	c.	Function Distributed Data Interface	
	d.	Function Distance Data Interface	
(x)	Which	of the following OSI layer is concerned with sending raw bits between the	
	source and destination nodes?		
	a.	Physical Layer	
	b.	Data link Layer	
	c.	Application Layer	
	d.	Transport Layer	
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