Max. Marks: 80

Sl. No. 0243

Time: 3 Hours

Total No. of Pages: 2

## VI Semester B.Sc Examination, September - 2020 (Semester Scheme) (Non CBCS) (2013-14 Onwards) COMPUTER SCIENCE

Computer Networks (Paper - 8)

tructi	on: Answer any two full questions from Part - A, B, C and Part compulsory.	D is
	PART-A	
a)	What is data communication? Explain its characteristics.	[5]
b)	Describe any two Network Topologies with their advantages disadvantages.	and [5]
	b) what is recoverancy and the ortho error detection in	
a)	Explain LAN, MAN and WAN Networks.	[6]
b)	Explain any one unguided transmission media.	[4]
a)	Explain ASK and FSK.	[6]
b)	Differentiate Baseband and Broad band transmissions.	[4]
1	PART-B	
a)	Explain the services of Data link layer in OSI model.	[4]
b)	Give an account of Routers switches and Gateways.	[6]
a)	Briefly explain, Bridges and Repeaters with their applications.	[4]
b)	Explain the functions of the transport layer in the OSI model.	[6]
	a) a) b) a) b) a) b) a) b)	PART-A  a) What is data communication? Explain its characteristics. b) Describe any two Network Topologies with their advantages disadvantages.  a) Explain LAN, MAN and WAN Networks. b) Explain any one unguided transmission media.  a) Explain ASK and FSK. b) Differentiate Baseband and Broad band transmissions.  PART-B  a) Explain the services of Data link layer in OSI model. b) Give an account of Routers switches and Gateways.  a) Briefly explain, Bridges and Repeaters with their applications.

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6.	a)	Explain types of IP addressing.	[4]
	b)	Explain HTTP, FTP and 'UDP' Protocol.	[6]
		PART-C	
7.	a)	Explain the following:	[6]
		i) Virtual circuit packet switching	Time: 3 Hou
		ii) Datagram Packet switching	
	b)	Write a note on Leaky bucket.	[4]
8.	a)	Write a note on Routing Table.	[4]
	b)	Explain Hamming Code Correction method.	[6]
9.	a)	With an example explain Dijkstra's Routing algorithm.	[6]
	b)	What is redundancy? Explain any one of the error detection	on method. [4]
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		PART-D	
Ans	swer a	any <u>FIVE</u> questions.	$[5\times 4=20]$
10.	Exp	plain, any two transmission modes.	
11.	Exp	lain, Satellite Communication system.	
12.	Disc	cuss SMTP and TCP.	
13.	Exp	lain, Application layer in OSI Model.	
14.	Exp	lain, Types of Errors.	

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Give an account of Router

15. Explain the Network Services.