Sl.No. 0131 Total No. of Pages: 2

Max. Marks: 80

VI Semester B.Sc. Examination, April/May - 2019 (Semester Scheme) (New) (2013-14 Onwards) COMPUTER SCIENCE

Computer Networks

Time: 3 Hours		ax. Marks: 80	
Instructi	on: Answer any two full questions from Part-A, B, C compulsory.	& Part - D is	
	PART - A		
Q1) a) b)	What is Data Communication? Explain its characteristics. Explain the Data Communication modes.	[5] (d. [5] (d	
Q2) a) b)	Write a note on co-axial cable. Explain, Synchronous and Asynchronous transmission.	[5]	
<i>Q3)</i> a) b)	Write a note on Radio waves and Micro waves. Compare Unipolar scheme with Polar scheme.	[6]	
	PART - B		
Q4) a)	Explain Frequency Division Multiplexing & Time Division	[6]	
b)	Explain Satellite Communication.	[4]	
Q5) a)	Write a note on: i) SMTP.	[6]	

ALOHA.

Explain, IPV4 protocol.

ii)

b)

[4]

Q6) Describe, OSI model.

[10]

PART - C

Q7) a) Explain, the concept of virtual-circuit network.

[4]

b) Explain, distance vector routing algorithm.

[6]

- Q8) Define Congestion. Explain, Open loop and Closed loop Congestion Control Policies.
- Q9) Define:

[10]

- a) IP addressing.
- b) LAN.
- c) Bandwidth.
- d) Router.
- e) Checksum.

PART - D

What is Data Communicator? Explain its characteris

Answer any 5 questions

 $[5 \times 4 = 20]$

Explain the Ditte

- Q10) Explain the protocols used in transport layer of TCP/IP model.
- Q11) Write a note on e-mail.
- Q12) Compare IP address with MAC address.
- Q13) Explain, single bit error and burst error.
- Q14) Write a note on Routing table.
- Q15) Compare ARP with RARP.

