Roll No. Total No. of Pages: 02

Total No. of Questions: 07

B.Sc.(IT) (Sem.-5th)

COMPUTER NETWORKS

Subject Code: BS-305 Paper ID: [B0419]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains SIX questions carrying TEN marks each and students has to attempt any FOUR questions.

SECTION-A

l. Write briefly:

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- a) Define the term Multiplexing.
- b) Write the advantages of Optical fiber over twisted pair and coaxial cable.
- c) Explain the term SMDS.
- d) How does a single bit error differ from a burst error?
- e) Differentiate between Wired and Wireless Networks.
- f) Expand and Explain in brief term ISDN.
- g) What is the function of ARP protocol?
- h) Explain the term Asynchronous Transfer Mode.
- i) Explain the term Slotted ALOHA.
- j) What is Time Division switching?

SECTION B

2.	Write notes on the following:	
	(a) Flow Control	
	(b) Congestion Management	(5+5=10)
3.	Explain the OSI reference model in detail.	(10)
4.	Write notes on the following:	
	(a) Frame Relay	
	(b) SONET	(5+5=10)
5.	Explain the following:	
	(a) CSMA/CD	
	(b) CSMA/CA	(5+5=10)
6.	Explain the following:	
	(a) Transparent Bridges	
	(b) Spanning Tree Algorithm	(5+5=10)
7.	What is IP addressing? Explain different classes of IP addresses and	

(10)

Structure of IP Packets in detail.