

Total No. of Questions : 6]

SEAT No. :

P5797

[Total No. of Pages : 2

BE/Insem/Oct-547

B.E. (E & TC)

COMPUTER NETWORKS & SECURITY

(2015 Pattern) (Semester - I)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer any 3 questions from Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) use of logarithmic tables rule, mollier charts, electronic pocket calculator and steam tables is allowed.
- 5) Assume suitable data, if necessary.

- Q1)** a) Explain Hidden station problem & Exposed station problem in CSMA/CD? [5]
- b) A pure ALOHA network transmits 200-bit frames on a shared channel of 200 kbps. What is the throughput if the system (all stations together) produces [5]
- i) 1000 frames per second
 - ii) 500 frames per second

OR

- Q2)** a) Write different address used in TCP/IP protocol suit with suitable example. [5]
- b) Write & Explain Base band Ethernet. [5]
- Q3)** a) Explain the term Subnetting & Supernetting? [4]
- b) Draw IP Datagram & Explain function of each? [6]

OR

- Q4)** a) Explain need of ICMP? What are functions of ICMP in IPv4? [6]
- b) Explain Multiplexing & De-multiplexing in IPv4. [4]

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- Q5)** a) Draw & Explain IPv6 fixed header or datagram format. [5]
b) Explain Distance Vector Routing Algorithm with suitable example? [5]

OR

- Q6)** a) Explain transition of IPv4 to IPv6? [5]
b) Explain unicast open shortest path first routing protocol. [5]

