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Total No. of Pages : 02

Total No. of Questions : 07

B.Sc.(IT) (Sem.-5)
COMPUTER NETWORKS
Subject Code : BS-305
Paper ID : [B0419]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

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

SECTION-A**Q1) Write briefly :**

- a) What do you understand by de-multiplexing?
 - b) Sliding window protocol.
 - c) Differentiate between Hub and Switch.
 - d) What do you understand by peer-to-peer communication?
 - e) What is Token Ring?
 - f) Name at least three modulation techniques.
 - g) What do you understand by MAC address?
 - h) Give the full form of HDLC and RARP.
 - i) What is spanning tree algorithm?
 - j) How a VPN is different from a LAN?
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SECTION-B

- Q2) Explain in detail Sliding window protocol.
- Q3) Explain OSI Network Model. Compare it with TCP/IP model.
- Q4) Discuss various Error detection methods. Explain how CHECKSUM method is used.
- Q5) What do you understand by SONET? Explain Layers and Frame structure of SONET.
- Q6) Explain Structure of a SWITCH in circuit switching. Give the functioning of a Space Division Switch.
- Q7) Write short notes on :
- a) Telephone network
 - b) Asynchronous Transfer Mode.

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