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Total No. of Pages : 02

Total No. of Questions : 07

B.Sc.(CS) (2013 & Onwards) (Sem.-4)
DATA COMMUNICATION AND COMPUTER NETWORKS
Subject Code : BCS-406
Paper ID : [72322]

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 Answer briefly :**

- a) Differentiate between digital and analog transmissions.
- b) What are the various modes of communication? Briefly discuss each.
- c) What is Ring topology? What is its suitability?
- d) What are the components of the telephone system?
- e) What is Packet switching?
- f) Define electromagnetic spectrum.
- g) What is Framing?
- h) Differentiate between SLIP and PPP.
- i) What is the optimality principle of routing?
- j) Define Internetworking.

SECTION-B

- Q2 Differentiate between LAN, MAN and WAN in tabular form.
- Q3 What are the various transmission media used in computer networks? Discuss the wireless transmission media in detail.
- Q4 Discuss in detail the functions of various layers of OSI Reference Model.
- Q5 What is Multiplexing? Discuss the various types of multiplexing.
- Q6 Elaborate in detail the CDMA/CD protocol.
- Q7 What do you mean by Congestion? What are the causes of congestion? Discuss the various congestion control policies.

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