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Total No. of Questions: 07

B.Sc.(CS) (2013 & Onwards) (Sem.-4) DATA COMMUNICATION AND COMPUTER NETWORKS

Subject Code: BCS-406 M.Code: 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

1. Answer briefly:

- a) Define Computer Network. List various types of computer networks.
- b) List various merits and demerits of bus topology.
- c) What is LASER transmission?
- d) What is microwave transmission? How it is different from infrared transmission?
- e) What is broadband? What are its characteristics?
- f) Define CDMA. What is its significance?
- g) What is framing? What is its purpose?
- h) What is optimality principle?
- i) Define TDM.
- i) What is significance of frequency spectrum?

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SECTION-B

- 2. Compare and contrast:
 - a) Digital and analog transmission
 - b) Synchronous and Asynchronous transmission
- 3. What is various wired transmission Medias? Explain their merits and demerits.
- 4. What is TCP/IP model? How it is different from OSI reference model? Explain.
- 5. What are various date link layers design issues? Explain.
- 6. Define Ethernet. How it is different from token bus and token ring? Explain.
- 7. Write notes on the following:
 - a) Characteristics of SLIP and PPP
 - b) Internetworking

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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