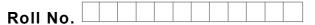
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B.Sc.(CS) (2013 & Onwards) (Sem.-4) DATA COMMUNICATION AND COMPUTER NETWORKS Subject Code : BCS-406 Paper ID : [72322]

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.



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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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