

**MCA-19**

June - Examination 2017

**MCA IIIrd year Examination****Data Communication and Computer Networks****Paper - MCA-19****Time : 3 Hours ]****[ Max. Marks :- 80**

**Note:** The question paper is divided into three sections A, B and C. Write answers as per given instructions.

**Section - A****8 × 2 = 16**

(Very Short Answer Questions)

**Note:** Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

- 1) (i) What do you mean by simplex technique?
- (ii) What do you mean by Unicast routing?
- (iii) What is process to process delivery?
- (iv) What is peer to peer protocol?
- (v) What do you understand by SMTP?
- (vi) What is PPP stack?
- (vii) Write any two benefits of client server modelling.
- (viii) What do you mean by backbone networks?

**Section - B****4 × 8 = 32**

(Short Answer Questions)

**Note:** Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 8 marks.

- 2) Discuss multicast routing protocol and working of it.
- 3) Write about transmission impairment.
- 4) Discuss the concept of multiplexing.
- 5) Write about socket interfacing in application layer.
- 6) Discuss various types of local area networks.
- 7) Describe Internet protocol and its addressing methods.
- 8) Describe various terminologies used in computer networks.
- 9) Explain point to point protocol with example.

**Section - C****2 × 16 = 32**

(Long Answer Questions)

**Note:** Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 16 marks.

- 10) Describe various methods of flow and error control.
- 11) Explain ISO-OSI Reference Model with functioning of each layer.
- 12) Write a short note on:
  - (i) Transmission Media
  - (ii) Circuit Switching in Telephone Network
- 13) Explain the types of Error Detection and Correction methods.