

**S.D.E.**  
**M.C.A. Sem - III : SUMMER - 2019**  
**SUBJECT: COMPUTER COMMUNICATION NETWORKS**

**Day:** Tuesday  
**Date:** 14/05/2019

**Time:** 10.00 AM TO 1.00 PM  
**Max. Marks: 80**

S-2019-5261

**N.B:**

- 1) Solve **ANY FIVE** questions from Section-I and **ANY TWO** questions from Section-II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in the SAME answer book.
- 4) Follow instructions of each question properly.

**SECTION-I**

- Q.1** What are the layers in OSI Reference Model? Explain Network layer in brief. (10)
- Q.2** What are various Network devices? Explain in brief Router and Hub. (10)
- Q.3** What is protocol? Explain various types of protocols with their functions. (10)
- Q.4** Explain Ethernet network standard with respect to its frame format & function. (10)
- Q.5** What are different types of servers? Explain functions of servers in brief. (10)
- Q.6** Explain in brief bus topology & star topology. (10)
- Q.7** Write short on **ANY TWO** of the following: (10)
- a) X.25
  - b) Datalink layer
  - c) Network Applications to business

**SECTION-II**

- Q.8** What are basic concepts of structured cabling? Explain how you will set up Network for Bank. (15)
- Q.9** Explain in detail Address Classes .Explain each class with example. (15)
- Q.10** Explain concept of connection oriented & connectionless Network. How you can make your Network secured. (15)

\* \* \* \* \*