

S.D.E.
B.C.A. (2004 COURSE SEM- IV : SUMMER - 2018
SUBJECT : DATA COMMUNICATION & NETWORK

Day : **Thursday**
Date : **31/05/2018**

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

S-2018-4357

N.B.

- 1) Attempt any **FIVE** questions from Section – I. Each question carries 10 marks.
- 2) Attempt any **TWO** questions from Section – II. Each questions carries 15 marks.
- 3) Answers to both the sections should be written in the **SEPARATE** answer books.

SECTION - I

- Q.1** What is TDMA? Explain in detail.
- Q.2** What are the various types of signals? Differentiate between asynchronous and synchronous data transmission.
- Q.3** Explain OSI reference model.
- Q.4** What is the purpose of polling/selection protocol? Explain HDLC protocol frame format.
- Q.5** Differentiate between message switching and packet switching.
- Q.6** What is topology? Explain various types of topologies.
- Q.7** Write short notes on any **TWO**:
- a) Frame relay
 - b) WAN
 - c) LAN

SECTION – II

- Q.8** Explain TCP/CP protocol suite in details with a neat diagram.
- Q.9** a) What are the parameters on which selection of cable depends for network?
b) Discuss network devices used in network building.
- Q.10** What is IP address? Illustrate in detail about classes of IP address with example.

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