

S.D.E.
B.C.A. (2004 Course Sem- IV : WINTER - 2018
SUBJECT: DATA COMMUNICATION & NETWORK

Day: Thursday
Date: 06/12/2018

W-2018-4519

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

N.B.:

- 1) Attempt 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 **SEPARATE** answer book.

SECTION-I

- Q.1** Explain synchronous and asynchronous transmission. **(10)**
- Q.2** Differentiate between: **(10)**
i) Connection oriented and connection transmission
ii) LAN Vs MAN Vs WAN
- Q.3** What are different types of communication protocols? Explain Time Division Multiplexing in detail. **(10)**
- Q.4** Explain the layered architecture of OSI model. **(10)**
- Q.5** Explain HDLC protocol and its frame format in detail. **(10)**
- Q.6** Explain CSMA/ CD in detail. **(10)**
- Q.7** Write short notes on any **TWO** of the following: **(10)**
a) Network topologies
b) Token Passing
c) Point-to-point network
d) Internetworking

SECTION-II

- Q.8** Explain TCP/IP protocol suite. **(15)**
- Q.9** What is switching? Explain different types of switching. **(15)**
- Q.10** What is the use of IP address? Explain the different classes of IP address. **(15)**

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