

CDOE
BACHELOR OF COMPUTER APPLICATIONS (CBCS-2019 COURSE)
B.C.A. SEM - IV : WINTER :- 2021
SUBJECT: COMPUTER NETWORKS

Day : Tuesday
Date 15-02-2022

W-21877-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 60

N. B. :

- 1) **Q. No. 4 is COMPULSORY.**
- 2) Answer ANY **TWO** questions from Q. 1, 2, 3 in Section – I.
- 3) Answer ANY **TWO** questions from Q. 5, 6, 7 in– II.
- 4) Figures to the right indicate **FULL** marks.
- 5) Answers to both the sections should be written in **SAME** answer book.
- 6) Draw neat and labelled diagrams **WHEREVER** necessary.

SECTION – I

- Q. 1** Answer the following: (12)
- a) Explain in detail about packet switched networks.
 - b) Describe wide area networks and its components.
- Q. 2** Answer the following: (12)
- a) Illustrate TCP/IP reference model in brief.
 - b) Give the general principles of various congestion control algorithms.
- Q. 3** Answer the following: (12)
- a) How does UDP differ from TCP? List the applications of UDP.
 - b) Outline the working principle of Bluetooth technology.
- Q. 4** Write short notes on **ANY THREE** of following: (12)
- a) Intranet
 - b) MANET
 - c) Sub-netting
 - d) HTTP
 - e) Multicast address

SECTION – II

- Q. 5** As network administrator, you are assigned task of designing local area network for small firm having 200 computers. Give the minimum requirement to build this network. Which topology you will prefer? Why? (12)
- Q. 6** With an example, explain the mechanism of distance vector routing protocol and specify routing table content. (12)
- Q. 7** a) Convert the IP address whose Hexadecimal representation is F24C1672 to dotted decimal notation. (06)
- b) Explain advantages of fiber optic cable over other transmission media's. (06)

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