

CDOE
BACHELOR OF COMPUTER APPLICATIONS (CBCS-2018 COURSE)
B.C.A. Sem-IV : WINTER :- 2021
SUBJECT: COMPUTER NETWORKS

Day : Tuesday
Date 15-02-2022

W-19006-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 70

N.B.

- 1) Attempt **ANY FOUR** questions from section- I and attempt **ANY TWO** questions from section – II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answer to both the sections should be written in the **SAME** answer book.

SECTION - I

- Q.1** What is computer network? Mention its need and give various applications. **(10)**
- Q.2** Differentiate between: **(10)**
- i) LAN and WAN.
 - ii) Direct routing and indirect routing.
- Q.3** Discuss various types of switching techniques in brief. **(10)**
- Q.4** Discuss the terms: **(10)**
- a) HTTP
 - b) IGMP
 - c) Subnetting
- Q.5** Describe the services provided by presentation layer in brief. **(10)**
- Q.6** Write a short notes on **ANY TWO** of the following: **(10)**
- a) Wireless sensor network
 - b) Domain name service
 - c) Session layer
 - d) Frame relay network

SECTION – II

- Q.7** a) Convert the following IP addresses into binary, whose hexadecimal representations are given below: **(09)**
- i) A2 4C 16 72
 - ii) 23 45 C7 89
 - iii) 98 7B 54 32
- b) Discuss various types of IPv6 addresses. **(06)**
- Q.8** What do mean by transmission media? Explain various transmission medias with their merits and demerits. **(15)**
- Q.9** XYZ organization has decided to build the network of hundred computers to implement the ERP system. As a network administrator, give the minimum hardware requirements to build this network. Which topology will you prefer? Why? **(15)**

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