

Total No. of Questions : 5]

SEAT No. :

P-6384

[Total No. of Pages : 2

[6155]-42

S.Y. B.Sc.

COMPUTER SCIENCE

CS-242 : Computer Networks - I

(2019 Pattern) (Semester - IV) (24122)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Neat diagram must be drawn if necessary.*

Q1) Attempt any EIGHT of the following (Out of TEN) : [8 × 1 = 8]

- a) Which is connection oriented transport layer protocol?
- b) Identify the class of the IP addresses 192.168.60.12 and 10.11.1.1
- c) Define congestion.
- d) What is fragmentation?
- e) Convert dotted decimal IP address to binary address : 255.255.0.0
- f) What is socket address?
- g) How many maximum no. of computers are used to create piconet?
- h) Apply bit stuffing on the pattern :
010011111110111110
- i) What is Ethernet?
- j) What is network?

Q2) Attempt any FOUR of the following (Out of FIVE) : [4 × 2 = 8]

- a) List different task performed by the network layer.
- b) What are the three phases of Mobile IP?
- c) List classes for classful IP addressing.
- d) What are the functions of transport layer?
- e) What is TCP?

P.T.O.

Q3) Attempt any TWO of the following (Out of THREE) : [2 × 4 = 8]

- a) What are the types of CSMA Protocols?
- b) Write the advantages of computer network.
- c) Explain the distinct steps involved in circuit switching.

Q4) Attempt any TWO of the following (Out of THREE) : [2 × 4 = 8]

- a) Write the policies adopted by open loop congestion control.
- b) Explain IPv6 Address types.
- c) Which services are provided by TCP?

Q5) Attempt any ONE of the following (Out of TWO) : [1 × 3 = 3]

- a) Write & Draw bluetooth frame format.
- b) Explain multiplexing & demultiplexing at the transport layer.

