Total No. of Questions : 5]

SEAT No. :

PE-1506

[Total No. of Pages : 2

[6502]-402
S.Y. B.Sc. (Computer Science)
CS-242 : COMPUTER NETWORKS - I
(Revised 2019) (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) What is functions of Presentation layer?

b) What is Packetizing process.

c) What are three phases of Mobile IP?

d) List protocols used at Transport layer.

e) Give channelization protocols.

f) What is mean by Jitter?

g) "UDP is connection oriented protocol". State the statement is true/ false.

h) State components of data communication.

i) What is size of IPV4 & IPV6 Address?

j) What is window size of TCP segment?

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

a) Explain Bus topology.

b) Consider a noiseless channel with a bandwidth of 4000Hz transmitting a signal with two signal levels. What will be maximum bit rate?

c) Identify the class of IP address.

i) 192.168.60.12

ii) 128.300.4.10

d) What are different services provided by UDP?

e) State difference between LAN and WAN.

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Q3) Attempt any two of the following (Out of Three) : **[2 × 4 = 8]**

a) Explain open & closed loop congestion control mechanism.

b) Explain UDP Datagram format.

c) Explain Framing methods.

Q4) Attempt any two of the following (Out of Three) : **[2 × 4 = 8]**

a) Explain in detail BSS & ESS.

b) Explain IPV6 Address types.

c) What is the difference between TCP & UDP.

Q5) Attempt any one of the following (Out of Two) : **[1 × 3 = 3]**

a) Explain TCP/IP reference model.

b) Explain classful addressing in detail.

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