

Total No. of Questions : 10]

SEAT No. :

P3044

[5154]-612

[Total No. of Pages : 2

B.E.(E & TC)

COMPUTER NETWORKS

(2012 Course) (Semester - I) (End Sem.) (404182)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer the questions-Q(1) or Q(2), Q(3) or Q(4), Q(5) or Q(6), Q(7) or Q(8), Q(9) or Q(10).*
- 2) *Figures to the right side indicate full marks.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Use of Electronic calculator is allowed.*
- 5) *Assume Suitable data, if necessary.*

Q1) a) Draw & explain Star topology with advantages & disadvantages. **[4]**

b) Explain function of physical layer with OSI diagram. **[6]**

OR

Q2) a) Explain coaxial cable with characteristics, application, advantages & disadvantages. **[6]**

b) Explain with suitable example different address used in TCP/IP suit?[4]

Q3) a) Explain stop & wait ARQ? **[5]**

b) Draw & explain transition state diagram used in PPP protocol. **[5]**

OR

Q4) a) Prove that throughput of slotted ALOHA is around 37%. **[4]**

b) Explain different transmission medium defined for IEEE 802.3? **[6]**

Q5) a) Explain classful Addressing? **[6]**

b) Explain encapsulation of ARP packet? **[4]**

c) Explain Bootstrap Protocol? **[7]**

OR

P.T.O.

- Q6)** a) Draw and explain function of each field of DHCP message format? [9]
b) Explain design goal often used in Routing algorithm? [8]

- Q7)** a) Draw & explain state diagram for simple connection management scheme at Transport Layer. [7]
b) Explain four ways of releasing using three way handshake in TCP protocol? [10]

OR

- Q8)** a) Explain different services provided by transport layer? [6]
b) Explain real time transport protocol? [5]
c) Which are parameters for the service primitives and library procedures? [6]

- Q9)** a) List basic security requirement for high security in line encryptor. [6]
b) Write a short note on World Wide Web? [5]
c) Write components of DNA? [5]

OR

- Q10)** a) State & explain Post office Protocol? [6]
b) State advantages & disadvantages of HTML? [5]
c) State & explain Security attacks? [5]

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