

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]

* * *