Total No. of Questions : 06]

SEAT No. :

P3794

[Total No. of Pages : 2

[4960] - 1312

M.E. (Computer Engineering)

ADVANCED COMPUTER NETWORKS

(2013 Pattern) (Semester-II)

Time : 3 Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right side indicate full marks.***
4) ***Assume suitable data, if necessary.***

Q1) a) Explain the issue of mobility and reliability with suitable example in network design. **[9]**

OR

b) Explain the process of network design with appropriate use case. **[9]**

Q2) a) Explain various types of distributions used in queuing theory with equation & example **[8]**

OR

b) Explain little's theorm with proof and example. **[8]**

Q3) a) Explain bin packing algorithm with example. **[8]**

OR

b) Explain centralized network design and discuss the various problem associated with it. **[8]**

P.T.O.

Q4) a) What is Qos in network design? Explain any three Qos mechanism. **[9]**

OR

b) Explain any two methods of conqertion avoidance with respect to Qos in network. **[9]**

Q5) a) Explain different migration issues from IPV4 to IPV6. **[8]**

OR

b) Compare IPV4 and IPV6 header format. Explain multicart mechanism in IPV6. **[8]**

Q6) a) What is cyber physical system. Explain different components of cyber physical system and how it is different from existing technologies like robotics, embedded system etc. **[8]**

OR

b) Explain next generation networks with architecture and example. **[8]**