P4344

SEAT No. :

[4860]-1312

M.E. (Computer Engineering)
ADVANCED COMPUTER NETWORKS
(510109) (2013 Credit 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 Online Examination System of our University. Explain various issues of Network Design to conduct the examination. **[9]**

OR

b) Draw and explain various advanced network architectures.. **[9]**

Q2) a) Explain all queuing models using Little's and probabilistic form of Little's theorem. **[8]**

OR

b) Compare various queuing systems with respect to performance. **[8]**

Q3) a) Explain how Sharma's algorithm optimizes CMST. **[8]**

OR

b) Explain open, semi - open and closed queue network with example. **[8]**

Q4) a) Explain the resource reservations process in traffic engineering. **[9]**

OR

b) What are different requirements of smart devices used for Ubiquitous computing? Explain with example. **[9]**

Q5) a) Compare IPv4 and IPv5 packet format. **[8]**

<div align="center">OR</div>

b) Differentiate IPv4 and IPv6 routing methodologies. **[8]**

Q6) Write short note on (any TWO) **[8]**

    a) Content Distribution Networks.

    b) Cyber physical systems.

    c) Computer network simulation.

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