SEAT No. :

Dec - 2013

[Total No. of Pages : 2

P592

[4461] - 34

S.Y. M.C.A. (Engineering Faculty) (Semester - III)
COMPUTER COMMUNICATIONS & NETWORKS
(2008 Course)

Time : 3 Hours]   *[Max. Marks :70*

Instructions to the candidates:

1) Answer 3 questions from Section - I and 3 questions from Section - II.

2) Answers to the two sections should be written in separate books.

3) Neat diagrams must be drawn wherever necessary.

4) Figures to the right indicate full marks.

5) Assume suitable data if necessary.

SECTION - I

Q1) a)   Explain Synchronous and asynchronous transmission with example. **[6]**

   b)   Explain any two Unguided Transmission Media in Detail.   **[5]**

OR

Q2) a)   What are different types of TDM techniques in detail?   **[6]**

   b)   Write difference between GEO, MEO, LEO.   **[5]**

Q3) a)   Give details of the components mention.   **[8]**
       i)   Bridges.
       ii)   Switches.
       iii) Connectors.
       iv)   Repeaters.

   b)   Write down difference between LAN, WAN, MAN.   **[4]**

OR

Q4) a)   Explain algorithm on Selective Repeat ARQ Sender side and Receiver side.   **[8]**

   b)   Explain HDLC Protocol in detail.   **[4]**

Q5) a)   Explain Random Access Protocol in details.   **[6]**

   b)   What is CSMA? Discuss in detail about CSMA/CD & CSMA/CA. **[6]**

OR

P.T.O.

Q6) a) Explain Virtual Circuit Switching in detail. [6]

b) Explain Bluetooth Architecture with neat diagram. [6]

SECTION-II

Q7) a) Discuss the various design issues related with the network layer. [6]

b) Explain the congestion prevention policies. [6]

OR

Q8) a) Explain the parameter quality of service in network layer. [6]

b) What is IP address? Explain IPv6 protocol format. [6]

Q9) a) Explain Flow Control in TCP. [6]

b) Explain Remote Procedure Call (RPC). [5]

OR

Q10) a) What is socket? Explain various socket primitives used in client server interaction. [6]

b) Explain Connection Establishment using three way handshaking in TCP. [5]

Q11) a) What is FTP? When and where it is used? Why does it require 2 ports? [6]

b) Explain Email Architecture with protocols. [6]

OR

Q12) a) Write a short note : [6]
i) MIME.
ii) IMAP.

b) Write short note : [6]
i) SMTP.
ii) HTTP.

☆ ☆ ☆