Co-504/CCN/5th Sem/2015/M

COMPUTER COMMUNICATION AND NETWORKING

Full Marks – 70

Pass Marks – 28

Time – Three hours

The figures in the margin indicate full marks for the questions.

Answer question No.1 and any *six* from the rest.

1. (a) What is a protocol ?   5×2=10

    (b) What is SMTP ?

    (c) What is routing ?

    (d) What is ISDN ?

    (e) What is RPC ?

2. Explain different layers of the ISO-OSI Reference model.   10

[Turn over

3. Differentiate between :   5×2=10

   (a) Pure ALOHA and slotted ALOHA

   (b) TCP and UDP.

4. (a) What is framing ? Explain different framing technique in brief.   5

   (b) What is sliding window protocol ? Explain any one sliding window protocol.   5

5. (a) What are the different classes of IP address ? Explain them.   8

   (b) What is subnetting ?   2

6. Explain different types of guided and unguided media.   10

7. (a) Explain CSMA / CD protocol.   6

   (b) Differentiate between virtual circuit and datagram services.   4

8. (a) What are the functions of transport layer ?   2

   (b) Explain any one congestion control algorithm.   8

9. (a) Explain how error is detected and corrected using hamming code with example. 8

(b) What is cryptography ? 2

10. Write short notes on any *two* : 5×2=10

(a) Switching

(b) TCP / IP model

(c) ARPANET.