Roll No_____

Examination May-2014

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B. Tech. (ID No. D11-804) Computer Networks (CS-303)

Paper ID- A0465

Time: 3 hrs Max. Marks: 60

Note: Section A is compulsory. Attempt any four questions from Section B and two questions from Section C.

Section A

10X2 = 20

- 1. (a) What do you mean a network? Describe briefly.
 - (b) What are the main characteristics of optical fiber cable?
 - (c) Why the network protocols are needed?
 - (d) What is the difference between FDM and TDM?
 - (e) What services are provided by the transport layer to the network layer?
 - (f) What is the function of RS-232 serial interface?
 - (g) A signal has 8 data levels with pulse duration of 1 ms. Calculate its pulse rate and bit rate.
 - (h) Describe briefly the merits and demerits of the microwave transmission.
 - (i) What is code efficiency? Describe briefly.
 - (j) What is meant by the Hamming code?

4X5=20

Section B

- 2. What is transmission media? What are the common types of the transmission media used for the communication?
- 3. What is ISDN? Describe in brief the working of ISDN to provide various services.
- 4. What are the types of the topologies used in the computer networks? Explain each one in brief
- 5. What is meant by congestion in network? Explain the algorithm for congestion avoidance.
- 6. What is framing? Why it is necessary? Explain different framing techniques used in the data link layer.

Section C

2X10=20

- 7. What are the wireless networks? Explain in detail various types of protocols used in their working.
- 8. Explain in detail various data encryption standards (DES) and their working.
- 9. a) Explain the different states of CSMA/CD protocol.
 - b) List various differences between TCP/IP reference model and OSI reference model.

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