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Roll No ....

CS-604

B.E. VI Semester

Examination, June 2017

Computer Networking

Time : Three Hours

Maximum Marks : 70

Note: i) Answer any five questions.

ii) All questions carry equal marks.

1. Explain the X.25 packet formats with suitable diagrams.

2. What do you mean by broadcast network? Discuss the need or lack of need for a network layer in a broadcast network.

3. Explain IEEE 802.2 in detail.

   Explain serial line IP and point to point protocol.

5. What do you mean by medium Access control sublayer? Why do we need it? Explain MAC.

6. Consider a slotted ALOHA having five stations. If the offered load $G_1 = 0.1$, $G_2 = 0.15$, $G_3 = 0.2$, $G_4 = 0.25$ and $G_5 = 0.3$ packets, find the individual throughput of each station and channel throughput.

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7. Explain multicasting routing in brief.

8. Answer any four of the following:

   a) Write the functions of each layer.

   b) Name the types of HDLC frames.

   c) How does CSMA/CD protocol improve the performance over CSMA protocol for long frames.

   d) Explain the frame format of IPv4.

   e) Give the format of UDP datagram.

   f) How does TCP achieve reliability in data transmission

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