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Total No. of Questions: 81

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Roll No

CS-604 (GS)

B.E. VI Semester

Examination, December 2017

Grading System (GS)

Computer Networking

Time: Three Hours

Maximum Marks: 70

Note: i) Answer any five questions.

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- ii) All questions carry equal marks.
- Explain the design issues and functionality of ISO-OSI model.
- 2. Differentiate between connectionless and connectionoriented services. Discuss their advantages, disadvantages and typical applications.
- 3. Discuss and compare DLL "Go Back n" and "Selective repeat" protocols.
- 4. Draw the frame format of HDLC protocol. Explain the technique of bit stuffing for data transparency. Explain the use of control, data checksum and address field of HDLC.
- 5. Derive an expression to prove that throughput of "Slotted ALOHA" is approximately twice than that of "PURE ALOHA".
- What are the tasks of FDDI medium access control protocol? What type of traffic is handled by a FDDI networks?

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129

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8. Answer any four of the following:

- Explain interfaces and services.
- How does sliding window protocol help to reduce congestion to an extent.

[2]

7. Explain the Bellman-Ford routing algorithm. Discuss the

drawback of count to infinity in Bellman-Ford algorithm.

- What is the effect of delay time in ALOHA on its throughput?
- What is congestion control? Write general principles of longestion control.
- e) Why is UDP needed? Why can't user program directly access IP?
- Differentiate between TCP and UDP.

130

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