Roll No

EX-7001 (CBGS)

B.E. VII Semester

Examination, November 2018

Choice Based Grading System (CBGS)

Computer Network

Time: Three Hours

Maximum Marks: 70

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PTO

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

- a) Explain different types of switches and their operation in detail. https://www.rgpvonline.com
 - Explain TCP/IP architecture. Show the comparison with the OSI model with the help of schematic diagram.
- 2. a) Explain stop and wait protocol used in data link layer. 7
 - b) What is network topology? Explain mesh, using ring and star topologies bringout their merits and demerits.
- 3. a) Prove that utilization of sliding window protocol for error

free channel is $U = \frac{W}{1+2a}$ where 'W' is window size and

'a' is the ratio of propagation time to transmission line.7

- Explain the working of stop and wait and selective repeat ARQ protocol. https://www.rgpvonline.com
- 4. a) Discuss about pure and slotted ALOHA.
 - b) Distinguish between following
 - i) Static and dynamic routing
 - ii) Centralized and distributed routing

5.	a)	What is CSMA scheme? Discuss non-persister	nt
		I-persistent and P-persistent CSMA with a diagram.	7

Explain use of different network devices.

a) Explain function of TCP header format fields.

 b) How simple mail transfer protocol? SMTP interacts with local mails and TCP.

7. a) How are transport layer protocol different from data link layer protocol? https://www.rgpvonline.com 7

 b) Discuss the concept of E-mail and world wide web in with respect to application layer working.

8. Write short notes (any two)

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- a) Mobile Networking
- b) B-ISDN and ATM
- c) Fiber optic LAN
