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Roll No

IT-5003-CBGS

B.E. V Semester

Examination, December 2020

Choice Based Grading System (CBGS)

Computer Network

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain LAN and WAN in brief with suitable example and diagram.
b) Draw TCP/IP header and explain each part of header.
2. a) Give the comparison between TCP/IP and ISO-OSI reference model.
b) Describe the working of stop and wait protocol with suitable sketch.
3. a) What do you mean by CSMA method of MAC? Define persistent and non persistent CSMA.
b) What is Pure ALOHA and slotted ALOHA? How the efficiency of slotted ALOHA is twice that of pure ALOHA? Derive it.
4. a) Explain ALOHA and slotted ALOHA protocol with suitable example.
b) What is CSMA? Compare the persistent and Non-persistent CSMA protocol.

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5. a) "TCP is connection oriented, reliable protocol" Justify the statement.
b) Differentiate bridges, routers and gateways.
6. Explain Bellman-food routing algorithm with example.
7. a) Explain following with respect to IP address. Give proper example of each.
 - i) Structure of IPv4 address
 - ii) Subnet mask
 - iii) Default gatewayb) Draw and explain TCP packet header.
8. Write short notes on any two:
 - a) Network connecting device
 - b) Classless addressing
 - c) FDDI
 - d) Point to point protocol
