Roll No ....

MCADD-602

M.C.A. (Integrated Course), VI Semester

Examination, May 2019

Advanced Computer Networks

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Describe OSI model. How the interaction between layers in the OSI model?

   b) The TCP/IP model is more robust than the OSI model. Is it a correct statement? Justify your answer?

2. a) Explain the persistent method of CSMA. Discuss multiple access protocols.

   b) Explain different protocols for noisy channels.

3. a) Differentiate between flow control and error control? Discuss about pros and cons of different network topology.

   b) Write a note on checksum and hamming code in reference to error detection and correction codes.

4. a) Describe Internetworking connecting devices in reference to layers.

   b) Discuss different standards of Ethernet.

5. a) Write difference between static and dynamic routing. Explain Dijkstra routing algorithm.

   b) Describe factors which are responsible for congestion. How are congestion control and quality of services related?

6. a) Explain four way hand shaking methods to terminate a connection in TCP.

   b) Write a brief note on TCP and UDP protocols. Also compare these two protocols in brief.

7. a) Discuss about the importance of simple Network management protocol.

   b) What is DNS? Why is it required?

8. Explain the following any four :

   i) Email (in reference to Application layer)
   ii) Multimedia
   iii) FDDI protocol
   iv) Virtual Terminal protocol
   v) Wireless communication

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