

MCADD-602
M.C.A. (Integrated), VI Semester
Examination, November 2019
Advanced Computer Networks

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1.
 - a) Explain ISO-OSI model. Discuss function of each layer with diagram.
 - b) Explain different communication media used in computer networking.
2.
 - a) Differentiate between modulation and demodulation by an example.
 - b) Explain Carrier Sense Multiple Access with Collision Detection algorithm (CSMA/CD).
3.
 - a) What is modem? Discuss its working. Also write down types of modem.
 - b) Write short notes:
 - i) DPCM
 - ii) PAM
4.
 - a) Write a brief note on CRC codes.
 - b) Describe sliding window protocol with an example.

5.
 - a) What is a finite state machine? Differentiate between deterministic and non deterministic finite state machine.
 - b) How Open Shortest Path First (OSPF) work? Explain with an example.
6.
 - a) Explain the concept of Token box and Token ring.
 - b) Explain the following:
 - i) Repeater
 - ii) Bridges
7.
 - a) How connection is established and terminated in TCP using three way handshaking mechanism?
 - b) Explain Dijkstra's algorithm with an example.
8. Write short notes:
 - i) Virtual Terminal Protocol
 - ii) SNMP
 - iii) DNS
 - iv) Multimedia
