



II Semester M.C.A. Examination, July 2017
- (CBCS)
COMPUTER SCIENCE
MCA 203T : Computer Networks

Time : 3 Hours

Max. Marks : 70

Instruction: Answer any five questions from Section – A and any four questions from Section – B.

SECTION – A

Answer **any five** questions. **Each** carries **six** marks. (5×6=30)

1. Explain the growth and probing in building the Internet applications.
2. What is guided media ? Explain its types.
3. How MODEM is used for modulation and demodulation ?
4. Differentiate frequency division and time division multiplexing.
5. Explain how SONET works in synchronous communication.
6. What is routing ? Explain link state routing.
7. Write a short note on :
a) Original classes of IP address b) ICMP message transport
8. What is framing ? How bit stuffing and character count helps in framing.

SECTION – B

Answer **any four** questions. **Each** carries **ten** marks. (4×10=40)

9. a) How LAN uses addresses to format the physical address ?
b) What is three-way handshaking in TCP ?
10. a) What is switching ? Explain the advantages of store and forward data.
b) Explain TCP header.
11. Discuss about OSI reference model.
12. a) Write a frame format of IEEE 802.5 format.
b) What is the difference between TCP and UDP ?
13. Explain electronic mail representation and transfer of data using dialup connections and POP.
14. Write a short note on : (2×5=10)
a) Virtual network b) DSL technology