



SG – 353

VI Semester B.A./B.Sc. Examination, September/October 2021
(CBCS) (Fresh + Repeaters) (2016-17 and Onwards)
COMPUTER SCIENCE – VIII
Computer Networks

Time : 3 Hours

Max. Marks : 70

Instruction : Answer *all* the Sections.

SECTION – A

- I. Answer **any 10** questions. **Each** carries **two** marks : **(10×2=20)**
- 1) Define simplex and full duplex communication. 2
 - 2) What are the two types of signal used for transmission ? 2
 - 3) What is a modem ? 2
 - 4) What is byte stuffing ? 2
 - 5) What is an ethernet ? 2
 - 6) What is broadcast address ? 2
 - 7) Differentiate between thinnet and thicknet wiring. 2
 - 8) Write a note on bridges. 2
 - 9) What are the advantages of ISDN ? 2
 - 10) Write a note on flooding. 2
 - 11) What is a protocol ? 2
 - 12) What is an IP address ? 2

SECTION – B

- II. Answer **any 5** questions : **(5×10=50)**
- 13) a) Write a note on growth of the internet. 5
b) Explain Geo-synchronous earth orbit satellites. 5

P.T.O.



- 14) a) Explain various transmission modes. 5
- b) Explain frequency division multiplexing. 5
- 15) a) Write a note on error detection with CRC. 5
- b) Explain any two network topologies. 5
- 16) a) Discuss about CSMA/CD method. 5
- b) Write a note on Network Interface hardware. 5
- 17) a) Briefly explain switching. 5
- b) Explain ISDN in detail. 5
- 18) a) Explain dijkstra's shortest path algorithm. 5
- b) Discuss seven layers of OSI reference model. 5
- 19) a) Write a note on Internet Architecture. 5
- b) Explain fragmentation and reassembly. 5
- 20) a) Write a note on TCP/IP protocols. 5
- b) Write a note on working of email. 5
