

VI Semester B.A./B.Sc. Examination, May 2017
(Semester Scheme) (Fresh)
(CBCS) (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 ten** questions. **Each** questions carries **two** marks : **(10×2=20)**
- 1) What is resource sharing ?
 - 2) Write a note on UTP cable.
 - 3) What is byte stuffing ? Explain.
 - 4) What is multicast addressing ?
 - 5) Write a note on Thinnet wiring.
 - 6) What is a repeater ?
 - 7) What is baud rate ?
 - 8) Mention any two DSL technologies.
 - 9) What is a protocol stack ?
 - 10) Differentiate between IPv4 and IPv6.
 - 11) What is a dynamic routing ?
 - 12) Write a note on Domain Name System.

P.T.O.



SECTION - B

II. Answer the following questions. Each question carries ten marks :

(5×10=50)

- 13) a) Write a note on growth of The Internet.
b) Explain Geosynchronous satellites.

OR

- a) Discuss various transmission modes.
b) Explain Wavelength Division Multiplexing.
- 14) a) Write a note on Error Deduction.
b) Explain any two network topologies.

OR

- a) Write a note on frame headers and frame format.
b) Write a note on Network Interface hardware.
- 15) a) Explain how two LAN segments connected by bridges.
b) What are the two services used to access ISDN ? Explain.

OR

- a) Explain distance vector routing algorithm with example.
b) Write a note on network performance characteristics.
- 16) a) Write a note on Internet Architecture.
b) Write a note on Address Resolution Protocol.

OR

- a) Write a note on User Datagram Protocol.
b) Explain various operations that can be performed on E-mail.
- 17) a) Explain TCP/IP model.
b) Explain ICMP error messages.

OR

- a) Explain different classes of IP Address.
b) Explain CSMA/CD Protocol.