



US – 415

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. 5
b) Explain Geosynchronous satellites. 5

OR

- a) Discuss various transmission modes. 5
b) Explain Wavelength Division Multiplexing. 5

- 14) a) Write a note on Error Deduction. 5
b) Explain any two network topologies. 5

OR

- a) Write a note on frame headers and frame format. 5
b) Write a note on Network Interface hardware. 5

- 15) a) Explain how two LAN segments connected by bridges. 5
b) What are the two services used to access ISDN ? Explain. 5

OR

- a) Explain distance vector routing algorithm with example. 5
b) Write a note on network performance characteristics. 5

- 16) a) Write a note on Internet Architecture. 5
b) Write a note on Address Resolution Protocol. 5

OR

- a) Write a note on User Datagram Protocol. 5
b) Explain various operations that can be performed on E-mail. 5

- 17) a) Explain TCP/IP model. 5
b) Explain ICMP error messages. 5

OR

- a) Explain different classes of IP Address. 5
b) Explain CSMA/CD Protocol. 5