



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**

