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 IPv 6.

11) What is a dynamic routing ?

12) Write a note on Domain Name System.

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SECTION – B

(5×10=50)

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

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