SIXTH SEMESTER B.Sc. DEGREE (SUPPLEMENTARY/IMPROVEMENT) EXAMINATION, APRIL 2017

(UG–CCSS)

Computer Science

CS 6B 17—COMPUTER NETWORKS

(2012 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

I. Answer *all* questions :

1. The data unit in the TCP/IP application layer is called ————.

2. ———— is designed to provide communications between two mobile stations or between one mobile unit and one land unit.

3. The algorithm that manages the tables and makes the routing decisions is called ————.

4. The number of bits in an IPV4 address is ————.

5. SMTP stands for ————.

6. ———— is the connection oriented, reliable transport protocol.

7 ———— OSI layer defines the standards for data formats and encryption

8. The set of rules a computer must follow on a network is called ————.

9. The physical components, organization and configuration of a network is known as its ————.

10 The minimum number of wires needed to send data over a serial communication layer is ————.

11 VSAT systems uses ———— to relay traffic between VSATs.

12 An interconnected collection of piconets are called ————.

(12 × ¼ = 3 weightage)

Turn over

II. Answer *all* questions :

13. What is piggybacking ?

14. What are the two types of switches used in circuit switching ?

15. Explain Bluetooth technology.

16. What are transposition ciphers ?

17. What is a peer to peer process ?

18. Describe Domain Name Systems.

19. Discuss the features of Star topology.

20. What are the Functions of Transport layer Protocol.

21. What do you mean by blocking in switched network ?

(9 × 1 = 9 weightage)

III. Answer any *five* questions :

22. Explain Cryptography.

23. Differentiate VRC and LRC.

24. Explain remote procedure call technique.

25. Explain about bit map protocols.

26. Describe electronic mail.

27. What are the responsibilities of data link layer in Internet model ?

28. What is Error Detection ? What are its methods ?

(5 × 2 = 10 weightage)

IV. Answer any *two* questions :

29. Explain the different multiplexing techniques used in networks ?

30. Explain the OSI reference model with the help of a neat diagram.

31. Explain various congestion control techniques.

(2 × 4 = 8 weightage)