SIXTH SEMESTER B.Sc. DEGREE (SUPPLEMENTARY) EXAMINATION MARCH 2018

(CCSS)

CS 6B 17—COMPUTER NETWORKS

(2012 Admissions)

Time : Three Hours   Maximum : 30 Weightage

I. Answer *all* questions :

1 ————— is the set of techniques that allows the simultaneous transmission of multiple signals across a single data link.

2 If the physical links are limited to a pair of nodes it is said to be —————.

3 The part of e-mail system which is responsible for manipulating mailboxes is called —————.

4 ————— routing algorithm uses Hello packets to learn about the neighbours.

5 End to end connectivity is provided from host to host in ————— layer.

6 CSMA stands for —————.

7 ————— is the connectionless, unreliable transport protocol.

8 ————— is a client server general purpose application program for remote logging.

9 If the physical links are shared by more than two nodes, it is said to be Multiple Access.

10 ————— satellites are positioned between two van Allen belts.

11 A combination of encryption and decryption algorithms in cryptography is called —————.

12 TCP Port number 80 is reserved for ————— protocol.

(12 × ¼ = 3 weightage)

II. Answer *all* questions :

13 How does a single bit error differ from burst error ?

14 How is a hub related to a repeater ?

15 Which are the two flow control mechanisms used in data link layer ?

16 What are different types of errors ?

17 What is meant by Cyclic code ?

18 What do you mean by remote procedure call ?

Turn over

19 What is NIC ?

20 What is the functionality of POP ?

21 Write short note on IPV4 addressing.

(9 × 1 = 9 weightage)

II. Answer any *five* questions :

22 Compare Error Detection and Error Correction .

23 What is NAT ? How can NAT help in address depletion ?

24 Explain CSMA and its uses.

25 What is a mask in IPV4 addressing ? What is the default mask in IPV4 ?

26 What is the need of cryptography ?

27 Compare flow control and error control in detail

28 Discussthe four basic topologies in terms of line configuration.

(5 × 2 = 10 weightage)

V. Answer any *two* questions :

29 Compare IPV4 and IPV6 addressing with the help of neat diagrams.

30 Explain the Bluetooth architecture and applications in detail.

31 Explain different Routing algorithms.

(2 × 4 = 8 weightage)