

C 21119

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Name.....

Reg. No.....

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2017**

(CUCBCSS—UG)

Computer Science

BCS 6B 14—COMPUTER NETWORKS

Time : Three Hours

Maximum : 80 Marks

I. Answer *all* questions :

- 1 \_\_\_\_\_ is the connection oriented, reliable transport protocol.
- 2 \_\_\_\_\_ OSI layer defines the standards for data formats and encryption
- 3 The set of rules a computer must follow on a network is called \_\_\_\_\_.
- 4 The physical components ,organization and configuration of a network is known as its \_\_\_\_\_.
- 5 The minimum number of wires needed to send data over a serial communication layer is \_\_\_\_\_.
- 6 A technique called \_\_\_\_\_ is used to improve the efficiency of bidirectional protocols.
- 7 \_\_\_\_\_ transport electromagnetic waves without using a physical conductor.
- 8 Error detection is usually done in the \_\_\_\_\_ layer of OSI model.
- 9 \_\_\_\_\_ is the most widely used local area network protocol.
- 10 \_\_\_\_\_ media is used for broadband local network.

(10 × 1 = 10 marks)

II. Answer *all* questions :

- 11 What is piggybacking ?
- 12 What are the two types of switches used in circuit switching ?
- 13 Explain Bluetooth technology.
- 14 What are transposition ciphers ?
- 15 What is a peer to peer process ?

(5 × 2 = 10 marks)

III. Answer any *five* questions :

- 16 Explain Cryptography.
- 17 Describe Domain Name Systems.

Turn over

- 18 Differentiate VRC and LRC.
- 19 Explain remote procedure call technique.
- 20 Explain about bit map protocols.
- 21 Describe electronic mail.
- 22 What are the responsibilities of data link layer in Internet model ?
- 23 What is Error Detection? What are its methods ?

(5 × 4 = 20 marks)

IV. Answer any *five* questions :

- 24 What are the three multiplexing techniques used in networks ?
- 25 Explain the OSI reference model with the help of a neat diagram.
- 26 Explain various congestion control techniques.
- 27 Compare various switching techniques.
- 28 Explain different types of topologies used in Network.
- 29 Explain different Transport layer protocols.
- 30 Discuss open loop and closed loop congestion control.
- 31 Explain the various random access protocols in detail.

(5 × 8 = 40 marks)