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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.	
$(10 \times 1 = 10 \text{ marks})$)
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?	
$(5 \times 2 = 10 \text{ marks})$)
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?

 $(5 \times 4 = 20 \text{ marks})$

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.

 $(5 \times 8 = 40 \text{ marks})$