V Semester B.C.A. Degree (CBCSS – 2014 Admn.-Regular) Examination,
November 2016
Core Course
5B14BCA – DATA COMMUNICATION AND NETWORKS

Time : 3 Hours

Max. Marks : 40

SECTION – A

I. One word answer :

$(8 \times 0.5 = 4)$

1) a) _____ OSI layer defines the standards for data formats and encryption.

   b) The set of rules a computer must follow on a network is called

   c) The physical components, organization and configuration of a network is known as its

   d) The minimum number of wires needed to send data over a serial communication layer is

   e) A technique called _____ is used to improve the efficiency of bidirectional protocols.

   f) _____ satellites are positioned between two van Allen belts.

   g) _____ transport electromagnetic waves without using a physical conductor.

   h) Error detection is usually done in the _____ layer of OSI model.
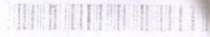
SECTION – B

II. Answer **any seven** questions :

$(7 \times 2 = 14)$

2) What is video compression ?

3) What is piggybacking ?

4) What are the three broad groups of wireless transmission ?

5) What are the two types of switches used in circuit switching ?

6) What are the features of LEO satellites ?

7) What do you mean by remote logging ?

8) What are the features of guided media ?

9) Explain Bluetooth technology.

10) What are transposition ciphers ?

11) What are the criteria necessary for an effective and efficient network ?

SECTION – C

III. Answer **any four** questions :   (4×3=12)

12) Explain Cryptography.

13) Describe fibre optic cable.

14) Compare various switching techniques.

15) Explain about remote procedure call technique.

16) Briefly discuss about OSI model.

17) Explain about bit map protocols.

SECTION – D

IV. Answer **any two** questions :   (2×5=10)

18) What are the three multiplexing techniques used in networks ?

19) With a neat diagram explain OSI reference model.

20) Explain various congestion control techniques.

21) Discuss in detail about any two guided media.

_____