



K16U 1858

Reg. No. :

Name :

**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 :**

(8×0.5=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 :

(7×2=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 ?

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- 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.
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