Reg. No. : ....

Name : ....

V Semester B.C.A. Degree (CBCSS – Reg./Sup./Imp.) Examination, November 2018
(2014 Admn. Onwards)
Core Course
5B14BCA : DATA COMMUNICATION AND NETWORKS

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One** word answer. (8×0.5=4)

   a) _____ is a set of rules that governs data communication.

   b) _____ is the expansion of TCP.

   c) _____ layer is responsible for establishing connection between source and destination.

   d) Expansion of WAN is _____

   e) _____ routing uses centralized routing technique.

   f) The topology there is a central controller or hub is _____

   g) Communication between a computer and a keyboard involves simplex data transmission. True/False.

   h) The OSI model has _____ layers.

SECTION – B

Write short notes on **any seven** of the following. (7×2=14)

2. What do you mean by analog data transmission ?

3. What are the uses of computer network ?

4. What do you mean by routing ?

5. Define the term encryption.

6. State optimality principle for routing packets.

7. What do you mean by broad casting ?

P.T.O.

8. What are the steps done in RSA encryption method ?

9. Differentiate guided and unguided media.

10. Define Anthe term noise.

11. What do you mean by coding violation ?

SECTION – C

Write short notes on **any four** of the following.   (4×3=12)

12. Write short note on framing techniques.

13. Explain various line configuration techniques.

14. Explain how network security can be achieved.

15. Write short note on functions of presentation layer.

16. Draw a diagram to show various layers of ISO OSI reference model.

17. Compare point to point and multi-cast networks.

SECTION – D

Write short notes on **any two** of the following.   (2×5=10)

18. Explain two secret key algorithms.

19. Explain various congestion control algorithms.

20. Write notes on the protocols TCP and UDP.

21. Write notes on various network topologies.

_____