Reg. No. : ....

Name : ....

VI Semester B.Sc. Degree (CBCSS – Regular) Examination, May 2017
(2014 Admn.)
CORE COURSE IN COMPUTER SCIENCE
6B14CSC : Data Communication and Networks

Time : 3 Hours   Max. Marks : 40

SECTION – A

1. **One** word answer :   (8×0.5=4)

   a) A DNS client is called _____

   b) Wildcard domain names start with label _____

   c) The right to use a domain name is delegated by domain name registers which are accredited by _____

   d) The domain name system is maintained by _____

   e) Absolute Telnet is a telnet client for _____

   f) Which operating mode of telnet is full duplex ?

   g) URL stands for _____

   h) A piece of icon or image on a web page associated with another webpage is called _____

SECTION – B

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

2. What do you mean by WWW ?

3. What is a Link ?

4. What is a LAN ?

5. What is the function of the OSI Session Layer ?

6. What are MAC addresses ?

7. Describe star topology.

8. What are the functions of a network administrator ?

9. What is the use of a default gateway ?

10. What is Ping ?

11. What is DNS ?

SECTION – C

Answer **any four** of the following questions :   (4×3=12)

12. Briefly explain Packet switching and its characteristics.

13. Differentiate between error detection and error correction.

14. Which are the important services offered by the Application layer ?

15. Compare TCP and UDP.

16. Briefly explain substitution cipher.

17. Write short notes on :
   a) Token bus
   b) Ethernet.

SECTION – D

Answer **any two** of the following questions :   (2×5=10)

18. Explain the principle of wireless LANS along with the protocol used.

19. Explain the concepts of routing.

20. Discuss the IP addressing scheme. Which are the different classes of networks ?

21. Discuss the need for network security. Explain cryptography.