Reg. No. : ....

Name : ....

VI Semester B.Sc. Degree (CBCSS – Reg./Supple./Imp.) Examination, May 2018
Core Course in Computer Science
6B14 CSC : DATA COMMUNICATION AND NETWORKS
(2014 Admn. Onwards)

Time : 3 Hours   Marks : 40

SECTION – A

1. **One** word answer.   (8×0.5=4)

   a) What is the maximum number of IP addresses that can be assigned to hosts on a local subnet that uses the 255.255.255.224 subnet mask ?

   b) How long is an IPv6 address ?

   c) What protocol does PPP use to identify the Network layer protocol ?

   d) Which protocol does DHCP use at the Transport layer ?

   e) Where is a hub specified in the OSI model ?

   f) A default Frame Relay WAN is classified as what type of physical network ?

   g) Acknowledgments, sequencing and flow control are characteristics of which OSI layer ?

   h) The entire hostname has a maximum of _____ characters.

SECTION – B

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

2. What do you mean by E-mail ?

3. What is the importance of the OSI Physical Layer ?

4. What is NOS ?

5. What is SLIP ?

6. What is netstat ?

7. What is peer to peer ?

P.T.O.

8. What is ipconfig ?

9. What is client/server ?

10. What is SMTP ?

11. How are IP addresses arranged and displayed ?

SECTION – C

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

12. What do you mean by Network Topology ? Which are the different Network Topologies ?

13. What are the functions of the Data Link Layer ?

14. Name the important IEEE-802 standards and give their applications.

15. Explain TCP/IP reference model. Explain the function of each layer.

16. What is data framing ? Which are the methods used for data framing ?

17. Explain ISO-OSI reference model.

SECTION – D

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

18. Briefly explain Packet switching and its characteristics.

19. Differentiate between error detection and error correction.

20. Briefly explain the Token ring standard.

21. Explain elementary protocols used in DLL.