



Reg. No. : .....

Name : .....



K18U 0093

**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)**

- 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 ?
- How long is an IPv6 address ?
- What protocol does PPP use to identify the Network layer protocol ?
- Which protocol does DHCP use at the Transport layer ?
- Where is a hub specified in the OSI model ?
- A default Frame Relay WAN is classified as what type of physical network ?
- Acknowledgments, sequencing and flow control are characteristics of which OSI layer ?
- The entire hostname has a maximum of \_\_\_\_\_ characters.

**SECTION – B**

Write short notes on **any seven** of the following questions.

**(7×2=14)**

- What do you mean by E-mail ?
- What is the importance of the OSI Physical Layer ?
- What is NOS ?
- What is SLIP ?
- What is netstat ?
- What is peer to peer ?

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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.