



C14-EC-602

4738

**BOARD DIPLOMA EXAMINATION, (C-14)
OCTOBER/NOVEMBER-2018
DECE-SIXTH SEMESTER EXAMINATION**

DATA COMMUNICATION AND COMPUTER NETWORKING

Time : 3 Hours]

[Total Marks: 80

PART-A

3X10=30

- Instructions :**
1. Answer **All** questions.
 2. Each question carries **THREE** marks
 3. Answer should be brief and straight to the point

1. Define simplex, half duplex and full duplex communication.
2. List the 7 layers of OSI reference model.
3. Write the applications of WAP.
4. Draw the Ethernet frame format.
- * 5. Mention the advantages of IPV6 over IPV4.
6. What is ISDN?
7. List the different types of WAN technologies.
8. Write any 3 differences between TCP and UDP.
9. List the HTTP commands.
10. What is web browser?

PART-B

10X5=50

Instructions :

1. Answer any **five** questions.
2. Each question carries **ten** marks.
3. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer

11. (a) Define computer network and state its use.
(b) Explain the circuit switching with neat diagram.
12. (a) Explain about coaxial cable and fiber optic cable.
(b) Explain the internal architecture of ISP.
13. Explain the Bus, Star, Ring & Mesh network topologies.
14. Explain CSMA, CSMA/CD and CSMA/CA.
15. Explain classful addressing and classless addressing in IPV4.
16. Explain different layers of TCP/IP and write the features of TCP.
17. (a) Describe the working of X.25 WAN protocol.
(b) Explain the purpose of proxy server.
18. (a) State the need for Network security.
(b) Explain the key management in securing the networks.
