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C14-EC-506

**4635**

**BOARD DIPLOMA EXAMINATION, (C-14)**

**MARCH/APRIL—2021**

**DECE - FIFTH SEMESTER EXAMINATION**

**DATA COMMUNICATIONS AND COMPUTER NETWORKS**

*Time : 3 hours ]*

*[ Total Marks : 80*

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**PART—A**

4×5=20

- Instructions :** (1) Answer *any five* questions.  
(2) Each question carries **four** marks.  
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define computer network and state its use.
2. Define simplex and half-duplex communication.
3. State the need of protocols in computer networking.
- \* 4. Write the applications of WAP.
5. Define intranet.
6. Define store-and-forward switch mechanism.
7. List different layers of TCP/IP protocol stack.
8. State the use of gateways.
9. List any four HTTP commands.
10. State the use of remote login.

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## PART—B

15×4=60

**Instructions :** (1) Answer *any four* questions.  
(2) Each question carries **fifteen** marks.  
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Explain the use of UTP, STP , Co-axial and fibre optic cable in networking.
12. Explain the working of token-ring network.
13. Explain Ethernet frame format.
14. Explain the concept of routers and routing in networking.
15. Explain the internal architecture of ISP.
16. Explain different layers of TCP/IP protocol stack.
17. Explain the features of TCP.
18. Describe the web browser architecture.

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