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BOARD DIPLOMA EXAMINATION, (C-20)

MAY/JUNE—2023

DECE - FIFTH SEMESTER EXAMINATION

COMPUTER HARDWARE AND NETWORKING

Time : 3 Hours]   [*Total Marks* : 80

PART—A   3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. List the important features of chipset.

2. List the specifications of processor.

3. Define power on self-test.

4. State the need for disk partitioning.

* **5.** Define data communication.

6. Define network topology.

7. State the features of Bluetooth technology.

8. Define virtual circuit and datagram approaches in packet switching.

9. List different types of physical transmission media used in networking.

10. Define the terms internet and intranet.

Instructions : (1) Answer **all** questions.

(2) Each question carries **eight** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. *(a)* Explain the working of LED monitor.

(OR)

(b) Explain the working principle of optical mouse.

12. *(a)* Explain the steps in assembling a PC.

(OR)

(b) Explain the booting procedure.

13. *(a)* Draw the ISO : OSI 7 layer architecture and state the functions of each layer.

(OR)

(b) Compare ISO : OSI 7 1ayer model with TCP/IP reference model.

14. *(a)* Explain CSMA/CD, CSMS/CA.

(OR)

(b) Explain the topology of wireless LAN and explain it's frame format (IEEE 802.11).

15. *(a)* Explain the web browser architecture.

(OR)

(b) Explain classfull addressing in IPv4.

PART—C

10×1=10

16. Explain the file transfer operation using FTP.

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