C16–EC–**503**

6631

BOARD DIPLOMA EXAMINATION, (C–16)

OCT/NOV—2018

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 any six features of DDR2 SDRAM.

2. List any six specifications of LED monitor.

3. Define POST (Power on Self Test).

4. State the need for disk partitioning.

5. Define computer network and state its use.

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

7. State the need for protocols in computer networks.

8. Define the terms Internet and Intranet.

9. State the use of routers in networking.

10. Write the role of DNS server.

PART—B 10×5=50

Instructions : (1) Answer *any* **five** questions.

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

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

11. *(a)* List the important features of chipsets. 3

(b) Explain the working principle of optical mouse. 7

12. Explain the working of hard disk and its data access.

13. *(a)* Explain about booting procedure. 7

(b) Compare fire allocation table (FAT) with new technology file system (NTFS). 3

14. Draw the ISO : OSI 7 layer architecture and explain the function of each layer.

15. Explain the topology of wireless LAN and its frame format (IEEE 802·11).

16. Explain the cross-sectional diagrams of UTP and STP cables and their use in networking.

17. Explain about classful addressing and classless addressing in detail.

18. Describe how email is transferred.

★ ★ ★