4451

BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—2018
DCME—FOURTH SEMESTER EXAMINATION

COMPUTER HARDWARE & MAINTENANCE

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

PART—A   10×5=30

Instruction : (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 different hardware components needed to assemble a basic PC system.

2. Write about bootstrap loader.

3. List the various components on the motherboard.

4. Define cache memory. List different levels of cache memory with their locations.

5. List three different processor sockets.

6. List the advantages of CRT monitor.

7. Explain briefly the working principle of optical mouse.

8. Define partitioning.

9. Define troubleshooting.

10. List the precautions to be taken while troubleshooting the hardware.

PART—B 10×5=50

Instruction: (1) Answer any **five** questions and each question carries **ten** marks.

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

11. Explain the procedure of BIOS boot sequence. 10

12. Explain the importance of SMPS over linear voltage power supply. 10

13. Explain the construction details of a hard disk drive and explain its working

14. Explain about *(a)* SD RAM *(b)* DD RAM 5+5

15. Explain the working principle of Laser printer.

16. Explain the installation procedure of Windows 7 operating system.

17. Explain the procedure of NTFS formatting.

18. Explain troubleshooting procedure for the following

(a) Keyboard errors 5

(b) No signal on monitor 5

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