

**4451**

**BOARD DIPLOMA EXAMINATION, (C-14)  
MARCH/APRIL-2019  
DCME - FOURTH SEMESTER EXAMINATION  
COMPUTER HARDWARE & MAINTENANCE**

Time: 3 Hours

Max.Marks: 80

**PART-A**

**10x3=30M**

**Instructions:** 1) Answer **all** questions.  
2) Each question carries **three** marks.  
3) Answer should be brief and straight to the point and shall not exceed five simple points.

- 1) What is software? List the types of software with examples?
- 2) Explain about POST sequence.
- 3) List the voltage levels for each wire/connector of SMPS based on their standard color.
- 4) Define chipset. List any 3 chipsets?
- 5) State the need of a pendrive.
- 6) List the various input devices used with general purpose computer.
- 7) List the classification of printers.
- 8) Distinguish NTFS and FAT file systems?
- 9) List any 3 diagnostic tools for computers.
- 10) List the error description for any 6 beep codes.

**PART-B**

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**5x10=50M**

**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 answer.

- 11) Explain the BIOS hardware interaction. 10M
- 12) Explain the procedure for assembling a PC. 10M
- 13) a) Explain the working of pendrive. 5M  
b) Explain the constructional details of a CD-ROM. 5M
- 14) Explain the process of reading and writing of data on disc drives. 10M
- 15) Explain the working principle of CRT monitor. 10M
- 16) Explain the procedure for installation of windows XP operating system. 10M
- 17) Explaining the procedure of partitioning and formatting of hard disk using FAT method. 10M
- 18) Explain the procedure for troubleshooting of "core dump". 10M

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