



C14-CM-403/C14-IT-403

4451

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2016

DCM—FOURTH SEMESTER EXAMINATION

COMPUTER HARDWARE AND MAINTENANCE

Time : 3 hours ]

[ Total Marks : 80

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**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. Explain PCI and AGP.
2. List the various cables that connect peripherals to the system.
3. What is system board?
4. Explain XEON processor.
5. Define L1 and L2 cache memory.
6. List the various input devices used with respect to general purpose computer.
7. Write about working of CRT monitor.

- \* 8. Define partitioning and formatting.
- 9. Write how to use logic probe.
- 10. List any three beep sounds.

**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. Explain about the POST and BIOS processes. 5+5=10
- 12. Explain various motherboards based on the form factor. 10
- 13. Explain the constructional details and working of a hard disk drive. 10
- 14. (a) Define cache memory and explain how it improves the performance of memory. 5  
 (b) Explain the importance of SMPS over linear voltage power supply. 5
- 15. Describe the working principles of (a) Dot matrix printer and (b) Inkjet printer. 5+5=10
- 16. Explain how to run Windows setup. 10
- 17. Explain how to perform partitions of hard disk. 10
- \* 18. Describe troubleshooting procedure of no-display on monitor. 10

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