

**DIPLOMA IN COMPUTER SCIENCE AND
TECHNOLOGY (DCSVI)**

Term-End Examination

June, 2011

BICS-028 : PC ASSEMBLY AND MAINTENANCE

Time : 2 hours

Maximum Marks : 70

Note : Attempt any five questions and question no. 1 is compulsory which is multiple choice question.

1. (a) A _____ is approximately one billion bytes. **7x2=14**
- (i) kilobyte (ii) bit
- (iii) gigabyte (iv) megabyte
- (b) _____ is any part of the computer that you cannot physically touch.
- (i) I/P devices (ii) Hardware
- (iii) Software (iv) A peripheral
- (c) The component that process data are located in the _____.
- (i) I/P devices
- (ii) O/P devices
- (iii) System unit
- (iv) Storage component

- (d) Which of the following is an example of an input device ?
- (i) Scanner
 - (ii) Speaker
 - (iii) CD
 - (iv) Printer
- (e) All of the following are example of storage devices except :
- (i) Hard disk drive
 - (ii) Printer
 - (iii) Floppy disk
 - (iv) CD drives
- (f) The CPU and memory are located on the :
- (i) Expansion board
 - (ii) Motherboard
 - (iii) I/P device
 - (iv) O/P device
- (g) _____ is a set of computer programs used on the computer to help to perform task.
- (i) An instruction
 - (ii) Software
 - (iii) Memory
 - (iv) A processor
2. (a) What are the functional block diagram of motherboard ? Explain in detail. 7x2
- (b) Explain the different types of ports and pin out details of serial port.
3. (a) Draw the FDC block diagram and explain its function in detail. 7x2
- (b) Explain magnetic disk storage, chipset and cylinder skew in detail.

4. (a) What do you mean by RAID technology and types of RAID with suitable diagrams ? 7x2
- (b) What do you mean by seek time, access time and areal density ?
5. (a) Differentiate between static and dynamic random access memory with suitable diagrams. 7x2
- (b) Explain the 640 KB barrier in details.
6. (a) Explain the hard disk drive controller with suitable diagrams. 7x2
- (b) What are the different type of mouse and keyboard with suitable diagrams ?
7. (a) What is bus ? Discuss various types of buses with their features. 7x2
- (b) What are the different types of printer for computer system ? Explain each with suitable diagrams.
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