DJ-1823

First Year B. C. A. (Sem. I) Examination
September / October – 2007
Introduction to Computers : 103
(Old & New Course)

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

(2) Draw figures wherever necessary.

(3) All the questions are **compulsory**.

(4) Figures to the right indicate full marks.

1 Answer the following questions : 10

   (1) Define term hardware by giving example.

   (2) Define terms LSD, MSD.

   (3) What is UNICODE?

   (4) What is ASCII, EBCDIC?

   (5) What is a base? Give the base of hexadecimal number system.

   (6) How many registers can 16-bit address bus address?

   (7) What is data bus, address bus?

   (8) What does microprocessor do?

   (9) What is write protect notch? In which device it is found?

   (10) Define and distinguish between application and system software.

2 Attempt any **two** : 12

   (a) Classify computers on the basis of speed and capacity.

   (b) Differentiate between micro computers and notebook computers.

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[Contd...

(c) Differentiate between hardware and software. Define different types of software by giving example.

3 (a) Draw the block diagram of a computer and explain functional units of it.   **12**

(b) Write a note on different types of bus.

OR

3 (a) What are the different phases of machine cycle. Explain in detail.   **12**

(b) Explain serial, parallel ports in detail.

4 (a) Explain addressing modes in detail.   **5**

(b) Write a note on floppy disk. What do you mean by formatting?   **5**

(c) What is RAM, ROM, FLASH?   **3**

OR

4 (a) Explain any one backup device in detail.   **5**

(b) Explain cache memory.   **5**

(c) Differentiate between CDROM and DVDROM.   **3**

5 (a) Discuss data scanning device.   **6**

(b) Explain keyboard in detail.   **5**

(c) Differentiate between inkjet printer and laser printer.   **3**

OR

5 (a) Explain VDU in detail.   **6**

(b) Explain mouse in detail.   **5**

(c) Differentiate between OCR and OMR.   **3**

6 Attempt any **three** :   **9**

(a) Convert the hexadecimal number 5C8 to its decimal number.

(b) Subtract $(0011.11)_2$ from $(1101.01)_2$.

(c) Convert decimal number 481 to its equivalent octal number.

(d) Convert the octal number 528 to hexadecimal.