



DM-0863

First Year B. C. A. (Sem. I) Examination

November / December – 2006

Introduction to Computer

(New Course)

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशवैल निशान्नीवाणो विगतो उत्तरवही पर अवश्य लपनी.  
Fillup strictly the details of signs on your answer book.

Seat No. : 

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Name of the Examination :  
F. Y. B. C. A. (Sem. I)

Name of the Subject :  
Introduction to Computer (New)

Subject Code No. : 

0	8	6	3
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 Section No. (1, 2, ...): 

Nil
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Student's Signature

- (2) Figures to the right indicate full marks.
- (3) Draw figures wherever necessary.
- (4) All the questions are compulsory.

1 Answer the following questions : (attempt any twelve) 12

- (1) Give the full form of ENIAC.
- (2) Which functional unit is known as the brain of the computer system and why ?
- (3) What is EEPROM ?
- (4) What do you mean by resolution ?
- (5) What is a base ? What is the base for the binary number system ?
- (6) What do you mean by demand paging ?
- (7) How many address locations can be addressed by CPU with 16 address lines ? 2<sup>N</sup>
- (8) What is the unit for data transfer rate ?
- (9) Define firm wave.
- (10) What is function of the register MBR ?

- (11) The speed of the processor is measured in what ?  
(12) What is a direct addressing mode ?  
(13) What is ROM ?

- 2 (a) How CPU encenter programs ?  
(b) Classify the computers according to their size.

OR

- 2 (a) Differentiate between 3rd generation and 4th generation computers.  
(b) Differentiate between :  
—(1) PROM and EPROM  
✓(2) Analog and digital computer

- 3 (a) What is an output device ? Explain any one of the output devices.  
(b) What is the difference between sequential and direct access storage devices ? Give a brief note on floppy disks.

OR

- 3 (a) Write a note on optical storage devices.  
✓(b) What are the types of printers ? Explain any one in detail.  
4 (a) Give short notes on:  
(1) CD-ROM  
(2) Disk Controller  
(b) Briefly discuss the access mechanism of magnetic disks.  
(c) Write a note on Mouse.

OR

- 4 (a) Discuss data scanning device.  
(b) Differentiate between SRAM and DRAM.  
(c) Explain disk formatting.

307855080  
3.0525 x 10^9 = 3 x 10^9 bytes  
= 3 GB  
6 60 125  
75 128

- 5 (a) Give the formula for finding the storage capacity of a disk. If a disk pack has 10 disk plates each having 2655 tracks, 125 sectors per track, each sector can store 512 bytes, then find out the capacity of the disk pack.
- (b) (1) Find the binary equivalent of  $B9F.AE_{16}$  8  
(2) Find the decimal equivalent of  $110.101_2$ .  
(3) Add  $1101_2$  to  $101_2$ . 1101  
10010

OR

- 5 (a) What is the data transfer rate of a magnetic disk if its rotational speed is 3600 rpm, no of sectors/track is 125, No. of bytes/sector is 512 bytes. (in MB) 6
- (b) (1) Subtract 10 from 1000. (Binary subtraction) 8  
(2) Find the binary equivalent of  $2AB_{16}$   
(3) Find hexadecimal equivalent of  $11011_2$