Diplete - CS (OLD SCHEME)

Code: DC03

Subject: COMPUTER FUNDAMENTALS

Time: 3 Hours

Max. Marks: 100

JUNE 2011

NOTE: There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after 45 Minutes of the commencement of the examination.

Q1.A.	Choose the correct or the best alternative in the following:				
	a.	were used in first generation computers			
		(A) Transistors(C) Valves	(B) ICs (D) SSI		
	b.	One disadvantage of a direct acc	ess file is:		
		 (A) delay in computing storage (B) duplication of address locat (C) unused, but available, stora (D) all the above 	tion		
	c.	e. Which of the following is not a part of the CPU			
		(A) storage unit(C) program unit	(B) arithmetic and logic unit(D) control unit		
	d.	d. The ALU of a computer responds to the commands coming from:			
		(A) primary memory(C) external memory	(B) control section(D) cache memory		
	e.	e. Usually, which type of computers use the 8-bit code called EBCDIC?			
		(A) minicomputers(C) mainframe computers	(B) microcomputers(D) supercomputers		
	f. Both computer instructions and memory addresses are represented by:				
		(A) character codes(C) binary word	(B) binary codes(D) parity bit		

		(A) 6 bits	(B) 8 bits		
		(C) 12 bits	(D) 16 bits		
	h.	The time taken for the read/writ magnetic disk is called	read/write head to move to the correct track on the		
		(A) search delay(C) seek time	(B) latency delay(D) approach time		
	i.	What is the name of the computer terminal which gives paper print			
		(A) display screen(C) hard terminal	(B) soft copy terminal(D) plotter		
	j.	What is the storage capacity of a 5.25 inches double sided ,double disk having 40 tracks with each track having 9 sectors and each sector 512 bytes?			
		(A) 40*9*512*2 KB (C) 40*9*512*2 /1024 Bytes	(B) 40*9*512/1024 KB (D) 40*9*512*2 /1024 KB		
		Answer any FIVE Questions Each question car			
Q.2	a.	Write salient features of fifth generation computers.		(8)	
	b.	Draw a block diagram of basic organization of a computer system and explain about storage unit of this organization.			
Q.3	a.	Explain about the functions of various registers commonly used in computers. (8)			
	b.	Write a note on processor speed of	of a computer.	(8)	
Q.4	a.	Name and explain the two file acc	cess methods at the operating syste	em level. (8)	
	b.	Explain the printing mechanism of	of inkjet printer.	(8)	
Q.5	a.	. A disk pack has 11 plates with 20 read/write heads which can take 400 positions across the disk surface. Each track on a disk surface is divided in to 100 sectors of 512 bytes each. Determine:			
		(i) The number of cyl(ii) The number of trac	cks in a cylinder. a at any position of read/write head	d. (8)	

g. The number of bits required to address a 4K memory are _____

- b. Define access time, seek time, latency and transfer rate of magnetic disk. (8)
- Q.6 a. What is paging? Explain paging mechanism with the help of an example. (8)
 - b. Mention the tasks performed by utility programs. (4)
 - c. What are the functions of a communication software? (4)
- Q.7 a. Differentiate between flatbed scanner and hand held scanner. (8)
 - b. Define vision input system. Write steps involved to recognize a object by vision input system. (8)
- Q.8 a. Define Read Only Memory. Write about different types of ROM used in computers. (8)
 - b. When are two processes said to be in a dead locked state. Explain with the help of an example. (8)
- Q.9 a. Write about various addressing methods that can be used to apply formula/functions in MS-EXCEL. (8)
 - b. What is the function of EDIT menu of MS-WORD? Write about various options, their functions and the shortcut keys available under this option. (8)