## **Diplete - ET (OLD SCHEME)**

Code: DE14 Time: 3 Hours

## Subject: COMPUTER SOFTWARE FUNDAMENTALS

Max. Marks: 100

## **DECEMBER 2010**

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 half an hour of the commencement of the examination.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks

	Choose the correct or the bes	t alternative in the following:	$(2 \times 10)$	
a.	In a computer 'debugger' is a part of			
	<ul><li>(A) hardware.</li><li>(C) disc drive.</li></ul>	<ul><li>(B) software.</li><li>(D) CPU.</li></ul>		
b.	A programming language is a system offor describing computations.			
	<ul><li>(A) notations.</li><li>(C) rules.</li></ul>	<ul><li>(B) algebraic signs.</li><li>(D) definitions.</li></ul>		
c.	Recognition of basic syntactic constructs through reductions, this task is performed by			
	<ul><li>(A) Lexical analysis.</li><li>(C) Semantic analysis.</li></ul>	<ul><li>(B) Syntax analysis.</li><li>(D) Structure analysis.</li></ul>		
d.	is a technique of temporarily removing inactive programs from the memory of computer system			
	<ul><li>(A) Swapping</li><li>(C) Semaphore</li></ul>	<ul><li>(B) Spooling</li><li>(D) Scheduler</li></ul>		
e.	Compiler is a software which converts			
f.	Fortran, COBOL, BASIC, C all are the			
	(A) Low level languages	<ul><li>(B) Machine languages</li><li>(D) Natural languages</li></ul>		

	,	) F1 ) F9	(B) F2 (D) F7				
h.	Which of the following is not an application software?						
		Operating System Text Editor	<ul><li>(B) Notepad</li><li>(D) Word processor</li></ul>				
i.	W	Which of the following is the default extension of a file in MS-Excel?					
	,	) EXL ) EXC	(B) XLS (D) EXE				
j.	j. The advantage of using a spreadsheet is:						
	<ul> <li>(A) Calculations can be done automatically.</li> <li>(B) Changing data automatically updates the calculations</li> <li>(C) More flexibility.</li> <li>(D) All of the above.</li> </ul>						
Answer any FIVE Questions out of EIGHT Questions.  Each question carries 16 marks.							
Q.2	a.	a. Draw a flow chart to determine if the triangle formed from the three given sides is isosceles, equivalent or scalene. (8)					
	b. What is a decision table? List out the steps to construct a decision ta						
Q.3	a. What is an Operating system. What are it's goals? Explain about the varietypes of Operating Systems.			us ( <b>8</b> )			
	b.	Write a program in BASIC to find	out factorial for the given number.	(8)			
Q.4	<b>2.4</b> a. Explain the top-down programming design technique		g design technique. Give its limitations.	(8)			
	b.	Give the advantages of high leve and machine languages.	l languages over the assembly languag	ges ( <b>8</b> )			
Q.5	a.	Give the rules for drawing flowcha	urts.	(4)			
	b.	What is a linker? Illustrate the program files and linking them to d	e process of compiling multiple sour create an executable program.	ce (6)			
	c.	Explain any two fundamental file of	organization techniques.	(6)			

Which of the following shortcut key is used to check spelling in MS-Word?

Q.6	a.	Enumerate the three basic control structures used in various programmir languages with examples.	ng ( <b>8</b> )
	b.	What is Mail Merge? List out the steps followed in Mail Merge technique.	(8)
Q.7	a.	In DOS, what do these commands do? (i) COPY (ii) CHKDSK (iii) PROMPT (iv) DISKCOMP	(4)
	b.	Write the applications and advantages of Spread Sheet?	(6)
	c.	What is the purpose of CONFIG.SYS and AUTOEXEC.BAT file?	<b>(6</b> )
Q.8	a.	Give the sequence of steps to draw the bar graph in an EXCEL / spread she with an example.	et ( <b>4</b> )
	b.	Write a short note on features: Drag and drop objects, paint drawings and pictures of a graphic package.	<b>(6</b> )
	c.	What is justification? Explain briefly the various ways of justifying paragraph in MS WORD.	a ( <b>6</b> )
Q.9	a.	Write short notes on (i) Command line interface (ii) Graphical user interface.	(8)
	b.	Explain the concept of dynamic linking.	<b>(4</b> )
	c.	Explain page fault and its consequences thereafter w.r.t. memor management unit of operating system.	ry <b>(4</b> )