12/29/11 Code: A-20

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

Code: DE14	Subject: C	OMPUTER SOFTWARE FUNDAMENTALS
Time: 3 Hours		Max. Marks: 100

**JUNE 2009** 

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.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated.

Q.1 Choose the correct or the best alternative in the following:	(2⇒	×	<	1	Ľ	(	ĺ	(	(		Ĺ	l	Ĺ	1	1	1	1	1														1		1	1	1	1	1						Ċ	Ċ	<	×
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- a. Windows is popular because of its
  - (A) GUI features.(B) multitasking capacity.(C) Desktop technology.(D) because it is inexpensive.
- b. In Excel intersection of a row and column is called
  - (A) square.(B) cell.(C) worksheet.(D) range.
- c. Programs written in a High Level Language is called
  - (A) language program.(B) object program.(C) source program.(D) subprogram.
- d. A debug is a term denoting
  - (A) error correction process.
  - **(B)** writing of instructions in developing a new program.
  - (C) fault detection in equipment.
  - (D) determining useful life.
- e. Batch processing system
  - (A) uses one user program at one time.
  - (B) requires fairly simple operating system.
  - (C) may use any secondary storage device.
  - **(D)** all of the above.
- f. A flowchart is
  - (A) used by students for learning purposes.
  - **(B)** a method of programming.
  - **(C)** a method of displaying a problem in simple steps.
  - **(D)** used to find solution to complicated mathematical problems.

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g.	BASIC IS a		
	<ul><li>(A) High level language.</li><li>(C) medium level language.</li></ul>	<ul><li>(B) Software language.</li><li>(D) low level language.</li></ul>	
h.	Where does a Header always app	ear in a document?	
	<ul><li>(A) At the top of the page</li><li>(C) Only on the first page</li></ul>	<ul><li>(B) At the bottom of the page</li><li>(D) Only on the first section</li></ul>	
i.	Which file is usually located in the	root directory?	
	<ul><li>(A) config.sys</li><li>(C) command.com</li></ul>	<ul><li>(B) autoexe.bat</li><li>(D) setup.exe</li></ul>	
j.	Multiple instances of a class are		
	<ul><li>(A) Members.</li><li>(C) Classes.</li></ul>	<ul><li>(B) Modules.</li><li>(D) Objects.</li></ul>	
	Answer	any FIVE Questions out of EIGHT Questi Each question carries 16 marks.	ons.
Q.2	a. Draw a flowchart to find the fa	ctorial of a number.	(8)
	b. What are the various steps to b	be followed for constructing a decision table?	(8)
Q.3	a. Write an algorithm to check wh	nether the number is prime or not.	(8)
	b. What are the characteristics of	a good programming language?	(8)
Q.4	a. What are the different types of detect and correct. (8	ferrors that are found in computer programs?	Which type of error is more difficult to
	b. Write a program in FORTRAN	N to find the sum of digits of a number	(8)
Q.5	a. Differentiate between modular	and structured programming technique.	(8)
	b. What are the advantages and c	lisadvantages of interpreter over compiler?	(4)
	c. Why it is impractical to store a	ll the lines of program code in a single source fi	ile? (4)
Q.6	a. What are the advantages and d	lisadvantages of virtual memory?	(8)
	b. Describe the thre disadvantages.	e commonly used types of directory organ	nizations? Give their advantages and (8)
<b>Q.</b> 7	a. Describe the features of DOS	and UNIX operating system.	(8)

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b. What is a deadlock? Explain with an example.

Q.8	a.	Write steps to	do the following	in MS-Word.			
		(iii) Insert the b	text.  e text in the centrolleted list in a controlleted symbol.	locument.			(8)
	b.	A worksheet c	ontains the follo	wing details. Giv	ve the sequence	of steps to dray	w the column graph.
		A	В	C	D	E	
Qtr1		Qtr2	Qtr3	Qtr4			
		West	12000	22000	18000	16000	
		North	14000	44000	56000	31000	
		South	34000	35000	35000	41000	
		East	21000	16000	12000	28000	(8)
Q.9	а	n. Differentiate	between vecto	r graphics and (8)	raster graphics.	Give their adv	antages and disadvantages.
	b.	Write Short no	otes on				
		(i) Spell ch (iii) Real	eck Time Operating	(ii) wor System	ksheet (iv) C language		(8)

**(6)** 

(8)