12/29/11 Code: A-20

DECEMBER 2006

Code: D-14 Subject: COMPUTER SOFTWARE FUNDAMENTALS Time: 3 Hours Max. Marks: 100

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.

(2x10)

- Algorithms can be represented as
 - (A) programs

(B) flowcharts

(C) decision tables

(D) all of these



symbol in a flowchart represents

(A) online storage

(B) offline storage

(C) sort operation

- (D) I/O operation
- The interval from the time of submission of a process to the time of completion is
 - (A) Response time

(B) turn around time

(C) wait time

- (D) seek time
- d. Structured programming makes use of
 - (A) sequence logic

(B) selection logic

(C) iteration logic

- (D) all of these
- e. Assembler directives are
 - (A) pseudocodes

- **(B)** guidelines to assembler
- (C) opcodes in assembly language (D) guidelines to the computer
- BASIC uses _____ as a language translator
 - (A) Assembler

(B) Compiler

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		(C) Interpreter	(D) Linker	
	g.	When a job is allocated to CPU for ex	xecution, its state changes from	
		(A) Ready to Running(C) Ready to blocked	(B) Running to Ready(D) Blocked to Ready	
	h.	.man file extension indicates a		
		(A) Microsoft word document(C) Microsoft Access file	(B) online manual page file(D) online text file	
	i.	+ E9/3 in a spreadsheet indicates		
		(A) division operation(C) cumulative addition operation	(B) addition operation(D) extracts the remainder	
	j.	Thesaurus in a word processor gives		
		(A) Antonyms(C) Meanings	(B) Synonyms(D) Spell checking	
			tions out of EIGHT Questions. on carries 16 marks.	
Q.2	a.	•	s from 0 to 100 from the user and print the sum o	of all even
	 b. Write the flow chart symbols for the following operations: Printed document, Display output, Manual input, Manual operation, Communication I Merge, Sort, Extract. 			tion links,
		c. Differentiate between system so(4)	oftware and application software.	
Q.3	a.	a. Write a pseudocode to check whether a given triangle ABC is Isosceles or not, based on the angles A, B, C supplied by the user. Print 'Yes' or 'No'.(8)		
	b. What are the merits and demerits of Assembly language? (3)			
	c. Write a BASIC program to generate fibo nacci series upto 100. (5)			
Q.4		a. Write a C-code to search to	the second largest element in a numerical arra	ay of 10

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(10)

elements.

	b.	(i) Cut-and-paste and copy-and-paste facilities in word-process(ii) Portrait and landscape modes of printing.			
Q.5		(iii) Centre and justified text.a. Write in brief about enhancement of features in WINDOWS as of OS. (4)	(6) compared to DOS		
	b.	List and explain briefly the main functions of an OS.	(4)		
	c. Given two arrays A and B with elements sorted in ascending order. Write an alg A and B into another array C such that elements of C are again sorted in ascending				
Q.6	a.	Write a note on time sharing OS.	(4)		
		b. What is external fragmentation? How can it be avoided? Compare it with internal fragmentation. (6)			
	c.	What is a decision table? Give the steps to construct a decision table.	(6)		
Q.7	a.	Make a comparative study of Disk space allocation methods.	(9)		
	b.	What is demand paging? Where is it used?	(4)		
	c.	What is the difference between multitasking and multithreading?	(3)		
Q.8		a. What is the use of 'Mail merge' feature? What are the steps merging? (6)	s followed in mail		
	b.	What are the four different types of data that can be entered into a cell?	(6)		
		c. What is global search-and-replace, command of a word-processing? Gives situation where it is useful. (4)	ve an example of a		
Q.9		Write short notes of the following:			
		 (i) Programming techniques. (ii) Graphics feature in a spread sheet package. (iii) Command interpretation in OS. (iv) Pre processor. (4× 4 	= 16)		