

## N-1404

First Year B. C. A. (Sem. I) Examination
October / November - 2011

Paper-104: Computer Programming & Programming Methodology



Time: 3 Hours]
Instruction:

Fillup strictly the details of signs on your answer book.

Name of the Examination:

F. Y. B. C. A. Sem. I

Name of the Subject:

Paper-104: Computer Programming & Programming Methodology

Subject Code No.: 1 4 0 4 Section No. (1, 2,.....): Nil

1 Answer the followings in short (any ten)

10

Total Marks: 70

- (i) Explain the use of connector symbol in a flow chart.
- (ii) What is the range of values of BASIC variable that is declared of the data type LONG?
- (iii) What is the use of LOCATE statement?
- (iv) What do you mean by relational expression? Give example.
- (v) Explain MOD operator of BASIC.
- (vi) Write the purpose of SQR and ABS function.
- (vii) Define source program.
- (viii) What is subscript? Can we give subscript negative?
- (ix) How comma (, ) differs from semicolon (; ) in PRINT statement?
- (x) Can we store name and number in the same array-?
- (xi) Explain the use of RESTORE statement.
- (xii) What is the goal of program testing?

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2	Atte	mpt	any three:	18	
	(a)	What do you mean by program efficiency? Discuss any one source of program efficiency.			
	(b)	What is the arithmetic operator used in BASIC? What is their natural hierarchy? In what order are operations carried out within a hierarchical group?			
	(c)	Exp	lain INPUT and PRINT statement.		
	(d)	Write an algorithm to reverse a given string and draw flowchart.			
	(e)	e) Consider the following code. Give error (if any) otherwise output			
		(i)	A\$="RAJ"		
			B\$="KAVI"		
			PRINT LEFT\$(A\$,2) + RIGHT\$(B\$,2)		
		(ii)	A\$="PARIS"		
			B\$="ROME"		
			PRINT SGN(LEN(A\$)-LEN(B\$))		
		(iii)	PRINT ASC (MID\$("Compater",4,1)		
		(iv)	A\$= "This is my India"		
			PRINT SQR (ZENIAS)		
		(v)	PRINT 8/3		
		(vi)	PRINT WT (-8.9)		
		` ´	PRINT FIX (-8.9)		
3	Atte	mpt	any three:	12	
	(a)	Give	e use of DIM statement.		
	(b)		e different ways of writing comments. Also give	e	
		difference in them.			
	(c)	Differentiate forward and backward jumping along with example.			
	(d)	Explain READ and DATA statement.			
	(e)	Exp	lain IFELSE structure.		
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4 (a) Explain DO WHILE....LOOP with suitable example. 15

OR

- (a) Explain WHILE.....WEND loops with suitable example.
- (b) What is array? Explain single subscript and double subscripted array with examples. Also discuss advantages of array.

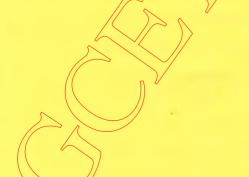
OR

- (b) Explain sorting giving example.
- (c) Write one or more basic statements:
  - (i) Dimension an array A of 100 cells
  - (ii) Dimension 100 x 200 matrix X
  - (iii) Calculate a (1,1) \* a(2,2) \* a(7,3)...,a(M,M) (only code).
- 5 Attempt any three:

15

- (a) Write a program to find minimum of n numbers.
- (b) Write a program to find sum of first N terms of following series:

- (c) Write a program to display whether given number is odd or even.
- (d) Write a program to sort the given numbers in descending order.
- (e) Write a program to search a number from a 3x3 matrix.



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