



UA-3704

First Year B. C. A. (Sem. - I) Examination
March/April – 2012
Computer Programming &
Programming Methodology : Paper - 104

Time : Hours]

[Total Marks : 70

Instruction :

नीचे दशांशकेल निशानावाणी विगतो उत्तरवही पर अवश्य लपकी. Fillup strictly the details of signs on your answer book.	Seat No.:
Name of the Examination :	<input type="text"/>
FIRST YEAR B. C. A. (SEM. - 1)	<input type="text"/>
Name of the Subject :	<input type="text"/>
COMPUTER PROGRAMMING & PROGRAMMING METHODOLOGY - 104	<input type="text"/>
Subject Code No. 3 7 0 4 Section No. (1, 2,.....) NIL	<input type="text"/>
	Student's Signature

1 Answer the following in short : (any ten)

10

- (1) Define algorithm.
- (2) What is computer program ?
- (3) Explain the use of DIM statement.
- (4) Give an example of logical operators.
- (5) What is a debugging ?
- (6) What is a relational expression ?
- (7) Differentiate ASC() and CHR\$() string functions.
- (8) Write basic expression :
$$M = nr^2 + ps$$
- (9) What is self replacement technique ?
- (10) Give major factors responsible for program efficiency.
- (11) Explain any 2 mathematical in built function.
- (12) Give use of LOCATE statement.

2 (a) Differentiate the following : (any two)

4

- (1) STOP and END
- (2) INPUT and READ statements
- (3) Compiler and Interpreter
- (4) INT() and FIX()

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1

[Contd...

(b) Consider the following code. Give error (if any), otherwise output. 4

- (1) A\$ = "LONDON"
PRINT ASC (MID\$ (A\$, 3,1))
- (2) LET A = 1.5
PRINT LEN (A)
- (3) PRINT SQR (LEN ("COMPUTER") – LEN ("MOUSE"))
- (4) FOR I = 1 TO 5 STEP–1.
PRINT I
NEXT I

(c) Explain program bugs in detail. 7

OR

(c) Explain flowchart. Explain different symbols used in flowchart. Give its benefits and limitations. 7

3 Explain the following in detail : 15

(a) Read, Data and Restore.

OR

(a) Variables and Constants.

(b) Compare GOTO and ON.....GOTO statement.

OR

(b) Arithmetic expressions.

(c) Draw a flowchart to find roots of quadratic equation.

4 Explain following in detail : 15

(a) What is branching ? Explain IF.....ELSE statement in detail.

OR

(a) Explain different levels of programming language.

(b) Explain FOR.....NEXT loop in detail.

(c) Write a program to print the reverse of a given string.

OR

(c) Write a program to find whether a given string is palindrome or not.

5 Answer the following :

15

(a) Explain following built-in functions : (any five)

(i) MID\$()

(ii) INSTR()

(iii) LEFT\$()

(iv) LEN()

(v) ABS()

(vi) SGN()

(vii) TAB()

(b) Write about multidimensional arrays.

OR

(b) Write a note on sorting.

(c) Write a program to find the count total number of odd elements in a one dimensional array.

OR

(c) Write a program to find transpose of a matrix.
