



KA-3704

First Year B.C.A. (Sem. I) (CBCS) Examination
September / October - 2012
Computer Programming & Programming
Methodology
(Old & New Course)

Time : Hours]

[Total Marks :

Instructions :

(1)

नीचे दशांशक निशानीवाणी विगतो उत्तरवही पर अवश्य लपची.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
F. Y. B.C.A. (SEM. 1) (CBCS)

Name of the Subject :
COMP. PROG. & PROG. METHODOLOGY (OLD & NEW COURSE)

Subject Code No. : 3 7 0 4 Section No. (1, 2,.....) : Nil

Seat No. :

Student's Signature

(2) Figures on right indicate marks.

(3) Do not interchange option

1 Answer the following in short : 10

- (i) How can we convert a number to a string ?
- (ii) What is computer program ?
- (iii) What is the range of values for BASIC variables that is declared of the data type LONG ?
- (iv) What do you mean by self replacement technique.
- (v) Write LET statement for

$$\sqrt{(Y^2 + (3AB))} / 2$$

- (vi) Write different ways of writing comments on BASIC program.
- (vii) Can we change the value of control variable in FOR LOOP ?
- (viii) Give difference between forward and backward jumping.
- (ix) Write the purpose of ABS () and SGN () function.
- (x) What is syntax error ? Give an example.

- 2 Explain the following any three : 15
- (a) Different levels of programming language.
 - (b) Arithmetic operator and order Evaluation.
 - (c) Read, Data and Restore
 - (d) Benefits and limitations of drawing flowchart. Also draw flowchart to find whether a given number is odd and even.
- 3 Attempt any three : 15
- (a) Write a note on various methods to store a value in variable.
 - (b) Explain SELECT CASE statement with an example.
 - (c) What is looping ? Write down syntax of FOR..NEXT Loop and define the following for FOR..NEXT LOOP
 - (i) Control variable
 - (ii) Initial value
 - (iii) Final value
 - (iv) Step
 - (d) Write a short note on debugging.
- 4 (a) Find out any error (if any) other wise give output for following code. 5
- (i) PRINT SQR (As ("delight"))
 - (ii) PRINT SGN (LEN("MOUSE") - LEN ("COMPUTER"))
 - (iii) A = 4.6
PRINT LEN (A)
 - (iv) PRINT LEFT\$ ("WINTER", 3)
+ RIGHT\$ ("SHADOWS", 4)
 - (v) A = 10
B = 20
PRINT STR\$ (A) + STR\$ (B)
PRINT A+B
- (b) What do you mean by double subscripted variable ? 4
Discuss in detail.
- OR**
- (b) What is sorting ? Explain with example. 5
- (c) Differentiate (any two) 6
- (i) Compiler and Interpreter
 - (ii) STOP and End
 - (iii) ASC () and CHR\$ ()

5 Attempt any three :

15

- (a) Write a program to display all odd numbers between two limits.
- (b) Write a program to find ROOTS of Quadratic Equation
- (c) Write a program to calculate the value of Fibonacci sequences for n term.
- (d) Write a program to display whether M by N matrix is an identity matrix or not.
- (e) Write a program to find addition of all positive and negative numbers from list of N numbers.

(2) Figures on right indicate marks

(3) Do not interchange options

1. Answer the following in short

10

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- (ii) What is computer program?
- (iii) What is the range of values for BASIC variables that are declared of the data type LONG?
- (iv) What do you mean by self replacement technique?
- (v) Write LET statement for $(x^2 + (y/z))$
- (vi) Write different ways of writing comments on BASIC program.
- (vii) Can we change the value of control variable in FOR LOOP?
- (viii) Give difference between forward and backward jumping.
- (ix) Write the purpose of ABS () and SGN () function.
- (x) What is syntax error? Give an example.