



C-1824

First Year B. C. A. (Sem. I) Examination
October/November – 2008
Computer Programming & Programming
Methodology

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशके निशानीवाणी विस्तारवही पर अक्षर्य लपनी.
Fillup strictly the details of signs on your answer book.

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

Name of the Subject :
Computer Programming & Programming Methodology

Subject Code No. : 1 8 2 4 Section No. (1, 2,.....): Nil

Seat No.:
0 2 0 6 1 4

[Signature]
Student's Signature

(2) Q. 1 is compulsory.

1 (i) Give the mathematical operator which is used to perform integer division. 10

(ii) Write basic statement

$$\frac{a+b}{c} - k(f-h)d^2$$

(iii) Give the statements which assign value to a variable.

(iv) How do we show decision statement in a flowchart.

(v) What is compulsory with Read.

(vi) How many spaces will be left while we use, in print.

(vii) Can we change control variable inside the loop.

(viii) How to print the ascii value of any character.

(ix) Define logical error.

(x) Can we use arrays to store different values.

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1

[Contd...

- 2 Any three : 15
- (a) Give in detail about flow chart and its uses.
 - (b) Explain about input statements with examples.
 - (c) Draw a flow chart to calculate square root of a positive number.
 - (d) Write about bugs.

- 3 Any three : 15
- (a) Discuss about double subscripted variables and its applications.
 - (b) Give the rules of nesting loops.
 - (c) Explain how print using can be used for printing the following :
 - (1) integer
 - (2) real
 - (3) character.
 - (d) Write a program to read the following data and print as follows :
423.256
897,
MONTH
– 2458.28

- 4 15
- (a) Write a note on various methods to store value in a variable. 6
 - (b) Draw a flow chart to calculate whether a number is armstrong number or not. 6

OR

- (b) Write an algorithm to calculate the following : 6

$$1 + 2^3 + 3^4 + 4^5 \dots$$

- (c) Write the output : 3

Dim a (4, 3)

for i = 1 to 3

for j = 1 to 4

Read a (j, i)

next i

next i

Print a (2, 3), a (3, 4), a(2,2)

Data 11,12,13,14,15,16,17,18,19,20,21,22

end

5 Any three :

(a) Write about the following :

15

- (1) Left\$
- (2) Ucase\$
- (3) tab
- (4) right\$
- (5) arc.

OR

(b) Compare and contrast :

- (1) goto – ongoto
- (2) for – while.

2

(c) What is the purpose of program testing ? (5)

3

(d) What is an array, How sorting is performed in it ? (5)