



RG-1824

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

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

ନିମ୍ନେ ଉଲ୍ଲେଖ କରାଯାଇଥିବା ବିବରଣୀ ଉତ୍ତରରେ ସଠିକ୍ ଭାବରେ ଭର୍ତ୍ତି କରିବାକୁ ହେବ।
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 PROG. & PROGRAMMING METHO.**

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

Seat No. :

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Student's Signature

(2) Question 1 is compulsory.

- 1 (a) Define flowchart. 10
 (b) Give the output
 (i) a = 7345
 print using "###"; a;
 (ii) a1\$ = "computer" print using u/u; a1\$
 (c) Draw the symbols used in connecting flowchart.
 (d) What is the use of restore statement ?
 (e) In what way lprint differs from print ?
 (f) Give the function which extracts part of the string.
 (g) Define syntax error.
 (h) Give the functionality of vall.
 (i) Give the basic expression :

$$a = \left(\frac{2by}{d+1} - \frac{x}{3(z+y)^3} \right)^{1/3}$$

2. Any three :

- (a) Define expression, give its types. 15
 (b) Draw a flowchart to convert fahrenheit to centigrade.
 (c) Write about selection statement with examples.
 (d) Write about software development life cycle.

- 3 Any three : 15
- (a) Write about entry controlled loops.
 - (b) Write a program to calculate factorial of a number only when it is even.
 - (c) Write a note on string functions.
 - (d) Write short notes on debugging.

- 4 (a) Write about sorting, give example. 6

OR

- (a) Write about bugs, give its types. 6

- (b) Write about multidimensional arrays. 6

- (c) Give the output :

- (1) $b = 123.45$ 3

Print using "+ #H# · HH#"; b

- (2) What will be the output if $n = 1$, $n = 0$ 2

x = 1

y = 1

if n > 0 then x = x + 1

y = y + 1

Print x, y.

- 5 Any three : 15

- (a) Give the limitations of flow chart.

- (b) Write one or more basic statements :

- (1) Dimension an array A of 100 cells.

- (2) Dimension 100 × 200 matrix X.

- (3) Calculate $a(1, 1) * a(2, 2) * a(3, 3) \dots a(M, M)$.
(3) (only code)

- (c) Write about testing, why it is needed.

- (d) Write a note on let, restore, Rem, lprint and cls.