



C-1844

First Year B.C.A. (Sem. II) Examination
October / November – 2008
Programming Language - I

Time : Hours]

[Total Marks :

Instructions :

(1)

नीचे दशांशवेक निशानीवाणी विगतो उत्तरवदी पर अवश्य वचवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
F. Y. B.C.A. (Sem. 2)

Name of the Subject :
Programing Language - 1

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

Seat No. :

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Student's Signature

1 Answer following briefly : 14

- (i) How can you declare a variable as constant?
- (ii) How do you mean by overflow and underflow of data?
- (iii) How do variable and symbolic names differ?
- (iv) What is trigraph character? How are they useful?
- (v) What is the purpose of qualifier const and volatile?
- (vi) Explain significance of main ()
- (vii) Given statement

`int a = 10, b = 20, C;`

determine

(i) `a+=10;`

(ii) $b + \frac{3}{2}$

2 (a) Explain different type of type conversions. 3

(b) What are different types of decision making statements in 'C' ? 6

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[Contd...

- (c) Write a program to print the following pattern for n=5. 5

```
5 4 3 2 1
 5 4 3 2
  5 4 3
   5 4
    5
```

OR

- (c) Write a program to find the value of sum for given series upto X.

$$\text{Sum} = 1 + \frac{2}{2!} + \frac{3}{3!} + \dots + \frac{X}{X!}$$

- 3 (a) How can you format an output of a 'C' program. 3
(b) Explain for Loop in detail with proper examples. 6
(c) Write a program to print sum of diagonal elements of a 3x3 matrix. 5

OR

- (c) Write a program to merge 2 arrays and sort it in ascending order. 5

- 4 (a) Explain any 2 string functions with example. 4
(b) Explain need of array variable. What is the difference between character array and numeric array. 6
(c) Write a program to do following on a given string. 5

Input : Patel Shiv Kumar

Output : Patel

Shiv

Kumar

OR

- (c) Write a program to find a word with maximum length from given string and print that string in reverse order. 5

- 5 (a) What is advantage of structure over array? 5
Explain with example.
- (b) Explain use of bit field in union. 3
- (c) A book shop maintain inventory of books that are 5
being sold at the shop.

Information contains author, title, price, quantity. When title and author is specified by user, program should search for book and should print its cost and quantity available.

OR

- (c) Define a structure called time which contains 5
3 members hour minute and second. Develop a program that would assign values to individual members and display time in 12-hour format.
e.g. 03:08:06 pm