

0610

First Year B. C. A. (Sem. II) Examination
April / May – 2005
Programming Language - I

Time : 3 Hours]

[Total Marks : 75

Instructions :

(1)

नीचे दसविल विवरण भरवादी पर अवश्य लम्बी. Mention below given details in Answer Book

Name of the Examination :

Name of the Subject :

Subject Code No. : Section No. (1, 2)

Seat No. :

Student's Signature

- (2) The question paper consists of 5 questions.
(3) Q. 1 is compulsory.
(4) Figures to the right indicate full marks to the question.
(5) Mention choices clearly. Do not intermix options.

Q1. Answer the following briefly:

[10]

- (1) How can a field width be specified with printf function?
- (2) What are operands in an expression?
- (3) What is keyword? Give two examples.
- (4) What is a character constant? How does it differ from numeric type constant?
- (5) Explain conditional operator.
- (6) What is a variable? How does it differ from a constant?
- (7) What are enumerated constant? Explain using example.
- (8) What is a global variable? How are they defined?
- (9) What is the use of a header file?
- (10) How can you assign octal and hexadecimal values to integer variables?

Q - 2.

A. Explain while loop using proper example.

[5]

OR

A. Explain the selective case statement in detail with example.

B. Which are the different data types in C. Describe any 3.

[4]

C. Write a C program to find the factorial of a user inputted number.

[6]

OR

C. Write a program to find the sum of 4 digits user inputted number.
e. g. 4327 = 4 + 3 + 2 + 7 = 16.

P-0610]

1

[Contd..

Q – 3.

A. Demonstrate using example, how one use a symbolic constant in a program.
Why do we require to use a symbolic constant? [4]

OR

A. What is the use of break and continue statements in a while loop?
Are their usages essential?

B. Explain the ways in which you can use decision making techniques in C with syntax. [5]

C. Write a C program to read a sentence (containing blank spaces) and display the count of the no. of words in it. [6]

OR

C. Write a program in C to convert lower case text of a user string into upper case.

Q – 4.

A. What is an array? How does it differ from normal variables? Explain with examples [4]

OR

A. What do you mean by string? How can they be declared and used for string operations?

B. Explain the following functions, using proper syntax: [6]
1) Strcmpi 2) Pow 3) Strlen 4) Toupper

C. Write a C program to find the sum of diagonal elements of a 3 x 3 matrix [5]

OR

C. Write a C program to find the H.C.F of each row in 3 x 3 matrix

H.C.F (Highest Common Factor)

e. g. H.C.F of [2,4,6]=

factors of 2 = 1,2

factors of 4 = 1,2,4

factors of 6 = 1,2,3,6

2 is common; hence H.C.F = 2

Q – 5.

A. Compare the following (Any 3); with examples: [6]

(i). Array and Structure

(ii). Structure and Union

(iii). Array and Union

B. Explain nested structures with example. [3]

C. Write a 'C' program to create a structure Account with following fields: [6]
Account No, Name of holders, Address, Balance.

Use proper data types. Take input from user and display the values stored in it.

OR

C. Write a C program to create structure of 100 students with fields as roll_no, name and marks (out of 100) of 5 subjects. Display those students who have secured less than 35 marks.