



PBK-003-1041002 Seat No. _____

B. Sc. (I.T.) (Sem. I) (CBCS) Examination
November / December - 2018
CS - 02 : Problem Solving Methodologies &
Programming in C

Faculty Code : 003
Subject Code : 1041002

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- 1 (a) Attempt following : 4
- (1) Write down name of pre-programming techniques available in C.
 - (2) What is variable ?
 - (3) What is middle level language ?
 - (4) What is translator ?
- (b) Attempt any one : 2
- (1) What is keyword ?
 - (2) List out relational operator.
- (c) Attempt any one : 3
- (1) Explain implicit type casting.
 - (2) Write down variable naming rules.
- (d) Attempt any one : 5
- (1) Explain structure of C program.
 - (2) Explain data types of C.

- 2 (a) Attempt following : 4
- (1) Write down syntax of while loop.
 - (2) Write down name of entry control loop.
 - (3) Write down syntax of if else statement.
 - (4) When { } is compulsory in looping and conditional statements ?
- (b) Attempt any one : 2
- (1) Define : break.
 - (2) Explain if statement.
- (c) Attempt any one : 3
- (1) Explain goto statement.
 - (2) Explain ternary operator.
- (d) Attempt any one : 5
- (1) Explain do..while loop with example.
 - (2) Write a program to check number is armstrong or not.
- 3 (a) Attempt following : 4
- (1) Which header file is used for isupper () ?
 - (2) Explain actual argument.
 - (3) Which is default storage class ?
 - (4) Explain malloc ()
- (b) Attempt any one : 2
- (1) Explain no argument no return value with example.
 - (2) Explain ceil () and floor ().

- (c) Attempt any one : 3
- (1) Explain call by reference.
 - (2) Explain return keyword.
- (d) Attempt any one : 5
- (1) What is recursion ? Explain with example.
 - (2) Explain storage class available in C.
- 4 (a) Attempt following : 4
- (1) Write down names of user defined datatypes.
 - (2) Write down name of structure member access operator.
 - (3) Which character is used to terminate string ?
 - (4) What is string ?
- (b) Attempt any one : 2
- (1) Declare structure with members variable rollno, name and age.
 - (2) How to declare array of structure ?
- (c) Attempt any one : 3
- (1) Explain nested structure.
 - (2) Difference : Structure v/s union.
- (d) Attempt any one : 5
- (1) What is Array ? Explain single dimensional array.
 - (2) Write a program to find out maximum number from array.

- 5 (a) Attempt following : 4
- (1) What is file ?
 - (2) Explain ftell ().
 - (3) What is the size of any pointer variable ?
 - (4) What is pointer ?
- (b) Attempt any one : 2
- (1) Write down file I/O operations in c.
 - (2) List out file reading modes.
- (c) Attempt any one : 3
- (1) Explain remove () and rename ().
 - (2) Explain pointer to pointer.
- (d) Attempt any one : 5
- (1) Explain command line argument with example.
 - (2) Explain pointer with structure.
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