



Seat No. _____

F8Y-003-3041002

B. Sc. (IT) (Sem. I) (W.E.F. 2022)

Examination

December - 2022

**CS - 02 : Problem Solving
Methodologis & Pro. In C**

(New Course)

Faculty Code : 003

Subject Code : 3041002

00160

Time : $2\frac{1}{2}$ Hours / Total Marks : 70

- 1 (a) Attempt the following : 4
- (1) What is type casting ?
 - (2) _____ keywords available in C.
 - (3) What is variable ?
 - (4) Write down pre-programming techniques available in C.
- (b) Attempt any one : 2
- (1) Explain logical operator.
 - (2) What is translator ? Write down name of translator.
- (c) Attempt any one : 3
- (1) Write a program to swap two values.
 - (2) Explain #define.
- (d) Attempt any one : 5
- (1) What is variable ? Explain in detail.
 - (2) Explain data types.

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- 2 (a) Attempt following : 4
- (1) What is loop?
 - (2) Which loop executed atleast once?
 - (3) What is nested loop ?
 - (4) Write down conditional statement.
- (b) Attempt any one : 2
- (1) Write a program to check number is odd or even.
 - (2) Explain while loop.
- (c) Attempt any one : 3
- (1) Difference between break and continue.
 - (2) Explain nested for loop with example.
- (d) Attempt any one : 5
- (1) Explain switch case with example.
 - (2) Write a program to check number is armstrong or not.
- 3 (a) Attempt following : 4
- (1) _____ function is used to allocate memory.
 - (2) What is recursion ?
 - (3) _____ header file is used for exit().
 - (4) Function can return _____ value.
- (b) Attempt any one : 2
- (1) Explain with strcmp().
 - (2) Explain floor().
- (c) Attempt any one : 3
- (1) Difference between call by value and call by reference.
 - (2) Difference between malloc() and calloc().
- (d) Attempt any one : 5
- (1) Explain UDF with no argument no return value.
 - (2) Explain storage classes.

- 4 (a) Attempt following : 4
- (1) int a[10];, will occupies _____ bytes in memory.
 - (2) _____ operator used to get address of variable.
 - (3) Which character is used to terminate string ?
 - (4) What is pointer ?
- (b) Attempt any one : 2
- (1) Explain pointer to structure.
 - (2) How to declare two dimensional array.
- (c) Attempt any one : 3
- (1) Explain pointer to pointer.
 - (2) Write a program to display sum of array.
- (d) Attempt any one : 5
- (1) What is array ? Explain one dimensional array with example.
 - (2) Write a program to display sum of two matrix.
- 5 (a) Attempt following : 4
- (1) _____ function is used to get file pointer position.
 - (2) Write down name of user define data types.
 - (3) _____ function is used to write formatted data.
 - (4) Write down file operation.
- (b) Attempt any one : 2
- (1) Explain typedef.
 - (2) Explain fseek()
- (c) Attempt any one : 3
- (1) Explain nested structure.
 - (2) Explain Fscanf() and fprintf().
- (d) Attempt any one : 5
- (1) Difference between structure and union.
 - (2) Explain command line argument with example.