



JAP-003-1031002 Seat No. \_\_\_\_\_

**B. C. A. (Sem. I) (CBCS) Examination**

**November - 2019**

**CS - 02 : Problem Solving Methodologies and  
Programming in C**

**Faculty Code : 003**

**Subject Code : 1031002**

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

[Total Marks : 70

1 (A) Answer the Following : 4

- (1) The format identifier '%d' is also used for \_\_\_\_\_ data type.
- (2) \_\_\_\_\_ backslash is used to print character in a new line.
- (3) && is \_\_\_\_\_ operator.
- (4) \_\_\_\_\_ means fix value of variable.

(B) Answer any **one** in brief : 2

- (1) What is Keyword?
- (2) What is Variable?

(C) Answer any **one** in detail : 3

- (1) Explain Constants.
- (2) List different Header Files with its usage.

(D) Answer anyone : 5

- (1) Explain Data types.
- (2) List different types of Operators.

- 2 (A) Answer the Following : 4
- (1) \_\_\_\_\_ is used to bring control to the beginning of the loop.
  - (2) \_\_\_\_\_ is used to transfer control from one statement to another statement.
  - (3) Conditional Ternary Operator is similar to the \_\_\_\_\_ statement.
  - (4) \_\_\_\_\_ is also known as exit control loop.
- (B) Answer any **one** in brief : 2
- (1) Explain goto statement.
  - (2) What is break statement?
- (C) Answer any **one** in detail : 3
- (1) Write a program to input a year from the keyboard and check entered year is leap year or not.
  - (2) Explain If else Ladder.
- (D) Answer any **one** : 5
- (1) What is Loop? Explain Nested Loop in detail.
  - (2) Explain Switch case.
- 3 (A) Answer the Following : 4
- (1) \_\_\_\_\_ function returns largest integer value.
  - (2) \_\_\_\_\_ function is used to find occurrence of a character in a string.
  - (3) In \_\_\_\_\_ storage class, the scope of the variable is global.
  - (4) \_\_\_\_\_ function is used to convert string to a long integer.

- (B) Answer any **one** in brief : 2
- (1) List different types of Storage classes.
  - (2) Explain strcat().
- (C) Answer any **one** in detail : 3
- (1) Difference: strcmp() V/s. strncmp().
  - (2) List different types of math functions. Explain any one in detail.
- (D) Answer any **one** : 5
- (1) Explain User. Defined Function.
  - (2) Write a short note on Recursion.
- 4 (A) Answer the Following : 4
- (1) \_\_\_\_\_ is a collection of items stored at contiguous memory locations.
  - (2) \_\_\_\_\_ array is a collection of rows and columns.
  - (3) You can define \_\_\_\_\_ with many members, but only one can be accessed at a time.
  - (4) String is terminated with a special character \_\_\_\_\_.
- (B) Answer any **one** in brief : 2
- (1) What is Union?
  - (2) Explain String array.
- (C) Answer any **one** in detail : 3
- (1) Explain Structure.
  - (2) Explain Multi dimensional array.

(D) Answer any **one** : 5

- (1) Write a program to input 5 number in array and print sum of that number.
- (2) Explain different types of Array in detail.

5 (A) Answer the Following : 4

- (1) \_\_\_\_\_ is used to allocate memory dynamically.
- (2) In command line argument, \_\_\_\_\_ refers to the number of arguments passed.
- (3) \_\_\_\_\_ function deletes the given filename so that it is no longer accessible.
- (4) \_\_\_\_\_ function is used to move file pointer position to the given location.

(B) Answer any **one** in brief : 2

- (1) Explain `sprintf()`.
- (2) Explain `fgetpos()`.

(C) Answer any **one** in detail : 3

- (1) Write a program to copy contents of one file to another.
- (2) Explain Pointer.

(D) Answer any **one** : 5

- (1) Write a short note on Command Line Argument.
- (2) Explain Pointer to Structure.

