JAY-003-1021002   Seat No. _____

P.G.D.C.A. (Sem. I) (CBCS) (W.E.F. 2016) Examination
December - 2019
CS - 02 : Problem Solving Methodologies and Programming in C
(New Course)

Faculty Code : 003
Subject Code : 1021002

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

1   (A)   Attempt the following :   **4**

(1)   Who developed C language?

(2)   What is high level language?

(3)   _____ is middle level language.

(4)   What is keyword?

(B)   Attempt any **one** :   **2**

(1)   Explain conditional operator.

(2)   Explain identifier.

(C)   Attempt any **one** :   **3**

(1)   Difference between Compiler and Interpreter

(2)   Explain Relational Operator

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

(1)   Explain datatypes of C.

(2)   What is variable? Explain in details.

2 (A) Attempt following : **4**

    (1) Write down name of jumping statements.

    (2) Write down name of conditional statements.

    (3) Write down syntax of while loop.

    (4) Write down name of entry control loop.

  (B) Attempt any **one** : **2**

    (1) Write down syntax of if statement.

    (2) Explain if else statement.

  (C) Attempt any **one** : **3**

    (1) Explain goto statement.

    (2) Explain nested loop.

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

    (1) Explain do...while loop with example.

    (2) Explain switch case with example.

3 (A) Attempt the following : **4**

    (1) _____ operator is used to get address of variable.

    (2) _____ is default storage class.

    (3) _____ header file used with pow().

    (4) Explain exit()

  (B) Attempt any **one** : **2**

    (1) Explain with strcat()

    (2) Explain any two mathematical functions.

(C) Attempt any **one** :   **3**

    (1) Explain recursion.

    (2) Explain UDF with no argument no return value.

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

    (1) Explain call by value and call by reference.

    (2) Explain different types of storage classes.

4 (A) Attempt the following :   **4**

    (1) What is array?

    (2) Write down name of user define data types.

    (3) String terminates with _____ character.

    (4) Array index value starts with _____

(B) Attempt any **one** :   **2**

    (1) How to declare structure?

    (2) Explain string.

(C) Attempt any **one** :   **3**

    (1) Explain nested structure.

    (2) Explain memory allocation of two dimensional array.

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

    (1) Explain one dimensional array with example.

    (2) Difference between structure and union.

5 (A) Attempt the following : **4**

    (1) Explain feof().

    (2) Explain fclose().

    (3) What is the size of pointer variable?

    (4) What is pointer?

  (B) Attempt any **one** : **2**

    (1) Explain file modes in file handling

    (2) How to declare pointer variable?

  (C) Attempt any **one** : **3**

    (1) Explain pointer to pointer.

    (2) Explain vsprintf()

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

    (1) Explain random access file.

    (2) Explain command line argument with example.

_____