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MBC-003-003108

Seat No. _____

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

November / December – 2016

**CS - 02 : Problems Solving Methodologies &
Programming in C
(Old Course)**

Faculty Code : 003

Subject Code : 003108

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

[Total Marks : 70

Q-1). Attempt the following:-

[20]

- 1). is used to store address of another variable.
- 2). Return statement always returnsexpression.
- 3). When function calls itself, then its called.....
- 4). UDF stands for.....
- 5). Which statement is used to generate menu driven program?
- 6). What is the storage capacity of float datatype?
- 7). is a collection of different datatype.
- 8). Every string is terminate with character.
- 9). Size of is a.....
- 10). What is a default storage class in C?
- 11). Who is a developer of c language?
- 12). Which tool is used to shows the flow of data by drawing symbols?
- 13). statement is used for immediate exit from loop.
- 14).function deallocates space in memory.
- 15). Which mode is used to open any file in write operation?
- 16). A pointer can pointobject at a time.
- 17). The maximum width of a C variable name can be.....
- 18). Which loop is also called as entry control loop?
- 19). Which operator is also called ternary operator?
- 20). Main() is

Q-2).(A) Attempt any three:-

[06]

- 1) What is if..else?explain with suitable example.
- 2) Write a program to add different two values using pointer.
- 3) What is Datatype. List out different datatype available in C.
- 4) Write a note on operators.
- 5) What is pointer? Explain with example.
- 6) Attempt the following:- (i) fread() (ii) fwrite()

Q-2). (B) Attempt any three:-

[09]

- 1) Explain the following function. (a) floor() (b) sqrt() (c) toupper()
- 2) What is string? Explain various string handling functions with example.
- 3) Differentiate:- Flowchart v/s Algorithm.
- 4) Write a c programming structure with suitable example.
- 5) Write a note on character set.
- 6) What is a preprocessor directive? Explain.

Q-2) (c) Attempt any two:-

[10]

- 1) Differentiate:- entry control loop v/s exit control loop.
- 2) What is storage class? Explain.
- 3) What is nesting for loop? Explain with suitable example.
- 4) What is File handling? Explain with example.
- 5) Write a program to enter 5 different values in an array and count positive, negative and zero digits from it.

Q-3). (A) Attempt any three:-

[06]

- 1) Write a note on c-tokens.
- 2) Attempt the following function:- (i). getch() (ii). ceil ()
- 3) What is UDF? Explain its advantages.
- 4) What is structure? Explain difference between structure and union.
- 5) What is pointer? Why we use it?
- 6) Explain the functions:- (i). calloc (ii) malloc

Q-3)(B) Attempt any three:-

[09]

- 1) Difference:- call by value v/s call by reference.
- 2) What is an array? Explain its various types.
- 3) Differentiate:- break v/s continue
- 4) What is recursion? Explain with suitable example.
- 5) What is switch statement? Explain with suitable example.
- 6) Explain nesting if..else with suitable example.

Q-3). (C) Attempt any two:-

[10]

- 1). What is command line argument? Explain with suitable example.
- 2) Explain various types of UDF with suitable example.
- 3) Write a program to enter any no. and print its factorial on the screen.
- 4) Write a program to enter any no. and check that the inputted no. is palindrome or not.

- 5). Write a program to generate the following triangle.

```
4444.....n
 333
 22
 1
```