



MBC-003-004102 Seat No. _____

B. Sc. (I.T.) (Sem. I) (CBCS) Examination
November/December – 2016
CS-02 : Problem Solving Methodologies &
Programming In C
(Old Course)

Faculty Code : 003
Subject Code : 004102

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

[Total Marks : 70

1 Attempt the Following (20)

- (1) What is Importance of Pre-Programming Techniques?
- (2) What is Dry Run?
- (3) Briefly Explain syntax of Nested if – else.
- (4) Prepare Algorithm for calculate simple interest.
- (5) What is Logic?
- (6) Write down Rules for naming variable.
- (7) List out Different Keywords available in C.
- (8) What is Type Casting?
- (9) Explain Ternary operators with Example.
- (10) What is Function?
- (11) Give Defination of String.
- (12) What is Union?
- (13) What is Constant?
- (14) Explain use of `cprintf()` with example.
- (15) Explain Character Set of C.
- (16) Give difference between `=` and `==`.
- (17) Explain `main()` with example.
- (18) How to Declare Array in C?
- (19) Explain use of `clrscr()`.
- (20) List out different Decision Statements (Control Structure) available in C.

2 (A) Attempt any three Out of Six (6)

- (1) Write down Structure of C Program.
- (2) Draw Flowchart to find the factorial of a given number
- (3) Explain `strcpy()` and `strcmp()` with Example.
- (4) Explain `#define` and `#include` with Example.

- (5) Write note on Symbolic Constant.
- (6) What is Variable ? How to declare variable in c? explain with proper example.

2 (B) Attempt any three Out of Six:- (9)

- (1) Give Difference between While and Do While Loop.
- (2) Explain If – Else with preparing Mark Sheets of Student.
- (3) Write a program to print Fibonacci series.
- (4) Explain Hierarchy of Operators.
- (5) Explain log() and floor() with example.
- (6) Give detail about C Tokens.

2(C) Attempt any two Out of Five:- (10)

- (1) Explain Data Types of C.
- (2) Explain Nesting of loop with proper example.
- (3) Explain Break and Continue Statement with Example.
- (4) Write a program to Enter number and display Month using switch case.
- (5) Write a program to get 5 numbers from user and count how many numbers are odd and how many numbers are even.

3(A) Attempt any three Out of Six:- (06)

- (1) Explain Typedef with Example.
- (2) Give difference between Structure and Union.
- (3) Explain Printf() and Scanf() with Example.
- (4) Write a program to get 5 numbers from user and arrange them in Ascending Order.
- (5) Write down code to print output of following pyramid.
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
- (6) Explain GOTO with short Example.

3(B) Attempt any three Out of Six :- (09)

- (1) Explain getch(),getche(),getchar() with Example.
- (2) Write a program to copy one string into another string.(Without using Strcpy())
- (3) What is Structure? Create a program to print employee detail using following fields
Empno
Empnm
City
Job
Salary
- (4) Explain textcolor() and gotoxy() with example.
- (5) Explain Malloc(),Calloc() with Example.
- (6) Give Example of Array of Structure.

3(C) Attempt any two Out of Five:-

(10)

- (1) Write a program to enter 2-D array and print sum of Two Matrix.
 - (2) Write a program to print sum of two numbers using UDF.
 - (3) Explain Storage Class in detail.
 - (4) Explain gets() and puts() with proper example.
 - (5) Write note on different symbols of Flow chart.
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