



NBP-003-1021002 Seat No. _____

P. G. D. C. A. (Sem. I) (CBCS) Examination

April / May – 2017

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

Faculty Code : 003

Subject Code : 1021002

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

[Total Marks : 70

- 1 (A) Attempt following questions : 4
- (1) Which ASCII set is used for A to Z alphabets ?
 - (2) The stdio.h stands for _____.
 - (3) How many bytes are occupied by integer data type ?
 - (4) What is the use of %x format symbol ?
- (B) Attempt any one : 2
- (1) Explain History of C Language.
 - (2) What is Dry run ? Explain its uses.
- (C) Attempt any one : 3
- (1) Explain any three types of Operators.
 - (2) Explain Type casting with examples.
- (D) Attempt any one : 5
- (1) Write a note on Pre-Processors in C.
 - (2) Explain various data type in C.
- 2 (A) Attempt following questions : 4
- (1) How many types of loop categories exist in C Language ?
 - (2) Which loop syntax requires semicolon at the end of loop ?
 - (3) Syntax of Simple if statement.
 - (4) Syntax of for loop.

- (B) Attempt any one : 2
- (1) What is loop ? Explain do...while loop with example.
 - (2) Explain if..... else statement with example.
- (C) Attempt any one : 3
- (1) Explain Nesting of Loops with example.
 - (2) Write a program to enter any three numbers and find maximum number.
- (D) Attempt any one : 5
- (1) Explain different Jumping statements with examples.
 - (2) Explain switch case statement with example.
- 3** (A) Attempt following questions : 4
- (1) Which data type is used when function not return any value ?
 - (2) Syntax of strncpy().
 - (3) When one function calls itself that is known as _____.
 - (4) Which function is used for taking float number remainder ?
- (B) Attempt any one : 2
- (1) Explain pow() and sqrt().
 - (2) What is Pointer ? Explain advantages of Pointer.
- (C) Attempt any one : 3
- (1) Explain any three Miscellaneous Functions.
 - (2) Explain any three String functions.
- (D) Attempt any one : 5
- (1) Explain different types of Storage Classes.
 - (2) What is UDF ? Explain different types of UDF.

- 4 (A) Attempt following questions : 4
- (1) An Index is always starting from _____ in Array.
 - (2) The Structure is collection of members _____ data types.
 - (3) In how many ways we can initialize array variable ?
 - (4) Which type of an Array is used to store elements in a Matrix format ?
- (B) Attempt any one : 2
- (1) What is Array ? Explain use of Array in Programming.
 - (2) Give differences between Array *v/s* Structure.
- (C) Attempt any one : 3
- (1) Explain Multi-Dimensional Array with example.
 - (2) What is Structure ? Explain Initialization and Accessing Structure Variables.
- (D) Attempt any one : 5
- (1) Explain Pointer with Structure with any suitable example.
 - (2) Explain UDF with Structure with example.
- 5 (A) Attempt following questions : 4
- (1) When we use pointer to pointer that it called _____.
 - (2) malloc() returns _____.
 - (3) Which value pointer variable can be hold ?
 - (4) A Binary file means _____.
- (B) Attempt any one : 2
- (1) Explain Pointer to Pointer.
 - (2) Explain fprintf() and fscanf().

(C) Attempt any one : 3

(1) Explain Pointer to Array with example.

(2) Explain fseek(), rewind() and fopen().

(D) Attempt any one : 5

(1) Explain Command Line Arguments with any suitable example.

(2) Explain uses of Pointers in Dynamic Programming.
