

Seat No. : _____

MO-103

May-2022

BCA, Sem.-II

CC-108 : Advanced C Programming (Theory)

Time : 2 Hours]

[Max. Marks : 50

- Instructions :**
- (1) All questions in **Section-I** carry equal marks.
 - (2) Attempt any **two** questions out of four in **Section-I**.
 - (3) Question-5 in **Section-II** is compulsory.

Section – I

1. (a) What is structure? How can you access structure variable ? Explain different operations on structure variable. 10
- (b) Explain copying and comparing structure variable. Write the difference between arrays of structure and arrays within structure. 10
2. (a) Write advantages of using a pointer and explain pointer to array and array of pointer. 10
- (b) Explain pointer and function in depth. 10
3. (a) Explain malloc and calloc functions in depth. 10
- (b) Explain types of linklist in depth. 10
4. (a) Explain fprintf() and fseek() functions in depth. 10
- (b) Explain error handling functions in file operation. 10

Section – II

5. Attempt the following questions. (Any Five) 10
 - (1) Memory for a structure is allocated at the time of _____.
 - (a) Structure definition
 - (b) Structure variable declaration
 - (c) Function declaration
 - (d) Structure declaration

- (2) A structure member variable is generally accessed using the
- (a) Address operator
 - (b) Dot operator
 - (c) Comma operator
 - (d) Ternary operator

(3) struct student
{
 int RollNo;
 char Name[20];
};

In above structure, memory allocated for s1 is _____

- (a) Same as int
 - (b) Same as char
 - (c) Same as size of structure
 - (d) None of the above
- (4) Datatype of pointer is _
- (a) Depends on the variable it points
 - (b) Depends on the compiler
 - (c) Depends on operating system
 - (d) It is always integer
- (5) A pointer variable contains as its value the _____ of another variable.
- (a) Address
 - (b) Name
 - (c) Copy
 - (d) None of the above
- (6) _____ function is used to release the dynamically allocated memory.
- (a) release()
 - (b) free()
 - (c) empty()
 - (d) None of the above
- (7) Which function is used to request memory, and set all allocated bytes to zero ?
- (a) malloc()
 - (b) calloc()
 - (c) realloc()
 - (d) None of the above
- (8) The function _____ gives the current position in the file.
- (a) fseek()
 - (b) ftell()
 - (c) getc()
 - (d) putc()
- (9) The mode _____ is used for opening a file for appending.
- (a) r
 - (b) w
 - (c) a
 - (d) r+
- (10) The pre-processor directives must be preceded by _____ symbol.
- (a) *
 - (b) #
 - (c) @
 - (d) &