

**Shri D. N. Institute of Computer Applications**  
**F.Y B.sc (CA & IT)(2<sup>nd</sup> Sem)**  
**US02MACIT01 || Advanced Computer Programming using C**  
**Model Paper March-2024**

**Q-1 Choose correct option for each of the followings** [10]

- 1 The parameter is also known as \_\_\_\_\_  
a) argument      b) variable      c) data type      d) array
- 2 The return type must be \_\_\_\_\_ if no value is return from the function  
a) void      b) int      c) float      d) none of these
- 3 Function header consists of \_\_\_\_\_ parts  
a) one      b) two      c) three      d) none of these
- 4 Which of the following defines and initializes a pointer to the address of x?  
a) int \*ptr=\*x;      b) int &ptr=\*x;      c) int \*ptr=&x;      d) int \*ptr=^x;
- 5 Int a,\*p=&a;  
Which of the following statement will not add 1 to a variable?  
a) a++;      b) a+=1;      c) \*p= \*p + 1;      d) \*p++;
- 6 Which of the following defines a pointer variable to an integer?  
a) `int &ptr;`      b) `int *ptr;`      c) `int **p;`      d) `int &&ptr;`
- 7 Which of the following is not a C memory allocation function?  
a) malloc()      b) calloc()      c) realloc()      d) alloc()
- 8 Which of the following is not a derived data type?  
a) array      b) float      c) pointer      d) structure
- 9 Which of the following allows a portion of memory to be shared by different type of data?  
a) Array      b) Structure      c) Union      d) File
- 10 Which of the following is valid for opening a file for only reading?  
a) `fileOpen(filenm,"r");`      b) `fopen(filenm,"r");`  
c) `fileOpen(filenm,"ra");`      d) `fopen(filenm, "read");`

**Q-2 What is user define function? Explain elements of user define function** [10]

**OR**

**Q-2 Explain following category of function with example** [10]

- 1) no argument & with return value      2) with argument & with return value

**Q-3 What are pointers? How can they be used with array? Explain pointer to array using appropriate examples.** [10]

**OR**

**Q-3 Write a note on Dynamic memory allocation.** [10]

**Q-4 What is structure? Explain its definition, declaration and assigning values to members of structure. Also mention advantages of structure over other data types.** [10]

**OR**

**Q-4 Explain array of structure and array within structure with example**

**Q-5 Explain fprintf and fscanf function with example** [10]

**OR**

**Q-5 Explain getc(),putc(), getw(), putw() function with syntax and example** [10]

