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**EF-468**

**M.A./M.Sc. III<sup>rd</sup> Semester (Reg./Pvt./ ATKT)**

**Examination, 2021-22**

**Maths**

**Paper - XI**

**Advanced Progr. In 'C' Theory & Practical-I**

**Time : 3 Hours]**

**[Maximum Marks : Reg.= 85  
Pvt.= 100**

**Note :-** Attempt all the questions.

**SECTION - 'A'**

**Objective Type Questions**

1. Choose the correct answer :

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(1)

P.T.O.

(i) The keyword used to transfer control from a function back to the calling function is :

- (a) Switch
- (b) Go back
- (c) Go to
- (d) Return

(ii) The library function used to reverse a string is :

- (a) strstr ( )
- (b) revstr ( )
- (c) strrev ( )
- (d) None of these

(iii) Which of the following statement is correct about the statement given below. Maruti.engine.bolts = 2.5 ;

- (a) Structure bolts is nested with in structure engine.
- (b) Structure engine is nested with in structure maruti
- (c) Structure maruti is nested with in structure engine
- (d) Structure maruti is nested with in structure bolts.

(iv) Which of the following is the correct output for the programme given below.

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(2)

```
#include <stdio.h>
```

```
void main ( )
```

```
{
```

```
int p,j,k;
```

```
i = 3;
```

```
J = &i;
```

```
}
```

```
printf("%d", i**j*i+j);
```

(a) = 30

(b) = 27

(c) = 9

(d) = 3

(v) Which type of files can't be opened using fopen();

(a) .txt

(b) .bin

(c) .C

(d) None of these

### SECTION - 'B'

#### Short Answer Type Questions

(3)

P.T.O.

2. What is function? Explain user defined and built-in function in 'C'.

OR

Write a program to find factorial of any integer, using recursion.

3. What do you understand by string variable. Write different method of declaration & Initialization of string?

OR

Write a program to compare any two strings.

4. What is a structure? Explain with its syntax in short.

OR

Compare union and structure in 'C' language.

5. Write a program to add two numbers using pointer?

OR

Explain pointer concept in C language with example.

6. What is file handling in C language? Discuss various file opening modes with example.

OR

Write the operation that can be carried out on a file.

(4)

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## SECTION - 'C'

### Long Answer Type Questions

- ✓7. Explain any 10 built-in function in C.

OR

Write a program to pass an array as an argument in function.

- ✓8. Write a program to concatenate two strings given by user.

OR

Explain the arithmetic operations that can be performed on character string, with example.

- ✓9. With the help of structure, declare a user defined data type Emp having emp code, E Name, Address, Dept and salary. Also write a program to insert records and display it.

OR

Write a program to show the use of array with in structure & array of structure in single program.

10. What are the pointer declarations used in C. Also discuss on pointer arithmetic?

OR

Explain the example of command line argument in C.

- ✓11. Write a file handling program in C language to write text to the file (test.txt.)

OR

Write a file handling program in C language to read contents from the file (test.txt).

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