

2023

FYUGP 1ST SEMESTER EXAMINATION

MATHEMATICS

(Skill Enhancement Course)

Paper:SEC0101303

(Basic Programming in C)

Full Marks: 30

Time- 1 hour and 30 minutes

The figures in the margin indicate full marks for the questions.

1. Answer the following questions: 1×5=5

(a) Mention two data types that are used in C language.

(b) Write down the utility of clrscr() function.

(c) What do you mean by constant?

(d) Write the output of a

```
int a;  
a=5/2;
```

(e) Name the header file that is used to compile the function sqrt(x).

Contd.

(2)

2. Answer any five :

2×5=10

- (a) What is the difference between array and structure?
- (b) What is syntax of nested if statement.
- (c) For $x=5$ $y=2$, write the output of $x\%y$.
- (d) What is the difference between character and string?
- (e) What do you mean by function?
- (f) Difference between call by reference and call by value?
- (g) What are the rules for naming a variable?
- (h) Write the relational operators that are used in C.
- (i) What are the string constant? Give one example.
- (j) Name the assignment and logical operators that are used in C.

3. Answer any three :

5×3=15

- (a) Write the general form of do-while loop and explain how it works with the help of suitable example.
 - (b) Compare while, do-while and For loop.
 - (c) What is the use of break and continue statement with the help of suitable example.
 - (d) Why array is required in C programming? How are 1-D array declared and inputs given to array? Explain with an example.
 - (e) Write a C program to find the factorial of a number.
 - (f) Write a C program to check a number whether it is even or odd.
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