Model Question Paper

Reg No:

Name:

RAJAGIRI SCHOOL OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)
FIRST SEMESTER B.TECH DEGREE EXAMINATION, APRIL 2021
101009/IT100C FUNDAMENTALS OF COMPUTER SCIENCE

Max. Marks: 100   **Duration: 3 hours**

PART A

(Answer **all** questions, **each** question carries 3 marks)

1. Explain the fundamental units of a computer with a block diagram?

2. Explain the steps involved in developing a program with neat diagram?

3. Explain in detail about the constants in 'C'

4. Describe the various types of operators in 'C' language along with its priority.

5. Differentiate global variable and local variable

6. Define call by value with example.

7. Define one – dimensional array with suitable example.

8. Give any two features of pointers.

9. Explain how a structure member is accessed .Illustrate with example.

10. Explain *fread()* and *fwrite()* function with example

PART B

(Answer **one full** question from each module, each question carries **14** marks)

Module –I

11. a) Explain about memory in Computer System

   b) Describe about the Imperative language in detail.

12. a) Explain flowchart in detail?

b) Describe in detail about algorithm? Give example.

Module –II

13. a)Explain the different types of operators used in C with necessary programs .

b)Discuss about the various data types in 'C'.

14. a) Explain about the various decision making statements in 'C' language.

b) Write short notes on the following:

- 'for' loop
- 'while' loop
- 'dowhile' loop
- 'Switch case '

Module –III

15. What are functions? Explain the types of functions in detail with an example program for each type.

16. Brief call by value and call by reference in detail.

Module –IV

17. What are pointers? When and why they are used? Explain in detail with sample programs.

18. Define arrays. Explain the array types with an example program for each type.

Module –V

19. Define structure in C.

20. Explain the types of file processing with necessary examples.