QP CODE: 24019227



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# B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, MAY 2024

## **Second Semester**

Complementary Course - CA2CMT02 - COMPUTER SCIENCE - PROGRAMMING IN C LANGUAGE

(Common for B.Sc Chemistry Model III Petrochemicals, B.Sc Mathematics Model I, B.Sc Physics Model III Electronic Equipment Maintenance, B.Sc Statistics Model I, B.Sc Zoology and Industrial Microbiology Model III Double Main )

2017 ADMISSION ONWARDS

5E11C87A

Time: 3 Hours

Max. Marks : 60

#### Part A

# Answer any **ten** questions. Each question carries **1** mark.

- 1. What is the purpose of the keyword typedef?
- 2. What are qualifiers? List any two with their purpose.
- 3. How many bytes of memory will be reserved for a float variable?
- 4. What is a ternary operator? Explain with an example.
- 5. What is the data type which cannot be used in the control statement of a switch statement?
- 6. Draw the flowchart of exit controlled loop in C.
- 7. In which header file does the function, getch() exists?
- 8. What is an acutal arguments ?
- 9. What is call by value?
- 10. What is meant by user defined functions in C?
- 11. What is a structure in C language?
- 12. If a=10 and ptr=&a then what will be the value of \*ptr?



#### Part B

## Answer any **six** questions.

### Each question carries 5 marks.

- 13. What are the different types of programming langauge?
- 14. What are the different steps in developing a programme?
- 15. Write the precedence and associativity of operators in C.
- 16. Explain the nested for loop in C language .
- 17. What is the difference between local and gloabal variables in C?
- 18. Write a programme to calculate average of n numebrs using arrays.
- 19. Explain about any four string functions with its syntax and example.
- 20. Write a program to swap the values of two variables using call by value and call by reference methods.
- 21. How a structure varaible differs from a normal variable in C?

(6×5=30)

#### Part C

# Answer any **two** questions. Each question carries **10** marks.

- 22. What is algorithm? Write an algorithm to prepare the sum of n natural numbers.
- 23. Explain decision making and branching statements in C with syntax, structural diagram and example.
- 24. Explain arrays with one example programme.
- 25. What are the important steps for using a funtion in a programme?

(2×10=20)