QP CODE: 24801158

Name 5

INTEGRATED MSC DEGREE EXAMINATION, FEBRUARY 2024

First Semester

INTEGRATED MSC COMPUTER SCIENCE-ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING, INTEGRATED MSC COMPUTER SCIENCE-DATA SCIENCE

CORE - ICSC1CR2 - PROGRAMMING IN C

2020 Admission Onwards

A4726C75

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

Answer any eight questions. Weight 1 each.

- 1. What are the advantages and disadvantages of machine language?
- 2. What is a logical error?
- 3. Variable is a named memory location. Justify you answer.
- 4. Write a C program to check whether a number is even or odd.
- 5. What is a user defined function? Give an example.
- 6. Compare static and automatic variables.
- 7. Define multidimensional array.
- 8. Explain the effect of the following statement: int a, *b = &a ;
- 9. How can we access individual structure members using pointer?
- 10. When does a programmer use #include directive?

(8×1=8 weightage)

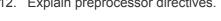
Part B (Short Essay/Problems)

Answer any six questions.

Weight 2 each.

Page 1/2

- 11. Explain flowchart and various notations used with examples.
- 12. Explain preprocessor directives.







- 13. Explain the categories of operators based on number of operands in c.
- 14. Write a C program to find sum of Natural numbers from 1 to N using for loop.
- 15. Explain break and continue statement with examples.
- 16. What is the difference between getchar() and gets() in C? Explain with examples.
- 17. Explain union in detail.
- 18. Explain the functions used for read a file.

(6×2=12 weightage)

Part C (Essay Type Questions)

Answer any **two** questions.

Weight 5 each.

- 19. Explain different approaches in programming.
- 20. Explain looping statements in c with example.
- 21. Explain pointer as function argument with example.
- 22. Create a structure named student that has name roll and mark as members. Assume appropriate type and size of member. Wite a program using structure to read and display n number of student details.

(2×5=10 weightage)