**ST. JOSEPH’S UNIVERSITY, BENGALURU - 27**

Registration Number:

Date & Session:

**M.A. (ECONOMICS) – II SEMESTER**

**SEMESTER EXAMINATION: APRIL 2024**

**(Examination conducted in May/June 2024)**

 **EC 8521 – INTRODUCTION TO PROGRAMMING IN C & MS EXCEL**

**(For current batch students only)**

**Time: 2 Hours Max Marks: 50**

**This paper contains 1 printed page and 3 parts**

**PART - A**

Answer any 5 questions 2 × 5 = 10

1. Distinguish between global and local variables.
2. What is meant by “problem definition” in programming methodology?
3. Briefly explain programming errors and its types.
4. What are arrays?
5. Evaluate the following statements:

 (i) 3<5 && 8!=0 (ii) 2\*10+7- 4/2

1. Distinguish between getchar() and getch() function.
2. State any three logical functions in MS Excel with syntax.

**PART – B**

Answer any 2 questions 5 × 2 = 10

1. Write a note on different basic data types in C. Write a program to find the memory allotted for each of these data types.
2. What is a pivot table? Explain the conditions required for executing a pivot table in Excel.
3. Explain the basic structure of a C program with an example.

**PART – C**

Answer any 2 questions 15 × 2 = 30

1. Discuss the different steps involved in programming methodology. Briefly explain the different kinds of errors with examples.
2. What are the different kinds of loops in C? Write a program to find the sum of even numbers from 1 to 99.
3. Compare and contrast between an algorithm and a program. Write an algorithm to find if a number is divisible by 7.