**St. Joseph’s College (Autonomous), Bangalore**

**Register No:**

**Date: 20-4-2018**

**II Semester Examination, April 2018**

**M.A. eCONOMICS**

**EC8517 : Programming in C**

**Time 2.5 Hrs Max Marks 70**

**This Question Paper Contains Two printed papers and Three parts**

**PART-A**

**Answer any TEN questions 2 x10 = 20**

1. Give any two advantages of algorithm.
2. What is flowchart? Draw any two symbols of flowchart.
3. What do you mean by problem analysis?
4. What is a variable? How is it different from a constant?
5. Give any four examples of relational operators.
6. Explain formatted input statement in C with an appropriate example.
7. When do we use ‘break’ statement? Give example.
8. What is an array? Give an example of a single dimensional character array.
9. Distinguish between local and global variables?
10. What do you mean by recursive function?
11. What is a structure? Give an example.
12. When do we use pointer? Give an example of apointer variable.

**PART-B**

**ANSWER ANY TWO QUESTIONS 2 x 10 =20**

1. Explain different stages of problem development.
2. With a suitable example, explain the structure of a C program.
3. Write a program to print the transpose of a 2X2 matrix.

**PART-C**

**ANSWER ANY TWO QUESTIONS 15 x 2 = 30**

1. a) Explain the different data types in C programming. (7)

b) Usingsizeof() operator find the number of bytes for any four data types. (8)

1. a)Write a program to print sum of n natural numbers. (10)

b) Explain different types of arithmetic operators. (5)

1. a) Explain nested if statement with a suitable example. (7)

b) Print the multiplication table of n. (8)