



THE AMERICAN COLLEGE, MADURAI

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

Re-accredited (2nd Cycle) by NAAC with Grade “A”, CGPA – 3.46 on a 4-point scale

Backlog Arrear Examination, March 2021

MAT 2461

Max: 60 marks

Programming with C

Time: 2 hrs

Answer any four questions: $4 \times 15 = 60$ marks

1. Discuss about the various operators available in C with suitable examples.
2. Discuss about formatted input and output statements in C with suitable examples.
3. Discuss in detail about the various types of “IF” statements in C.
4. Explain while and do-while statements with suitable examples.
5. a) Write a function using pointers to exchange the values stored in two locations in the memory.
b) Write a program that uses a function pointer as a function argument.
6. a) Explain the concept of arrays of structures.
b) Create a structure “marks” with members subject1, subject2, subject3 of integer data type. Write a C program to calculate the subject-wise and student-wise totals and store them as a part of the structure.