

QP CODE 2013511104

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DMI-ST. EUGENE UNIVERSITY

ZAMBIA

DEGREE EXAMINATION – JUNE 2023

Semester: I

351CP11 PROBLEM SOLVING USING C

Time: 3:00 Hours

Max. Marks: 100

Answer any FIVE Questions (5 x 20 = 100 Marks)

1. a) List out the features of C and explain the features of C. (12 Marks)
b) Write down the structure of C with example program. (8 Marks)
2. a) Explain the conditional statements with an example program. (15 Marks)
b) Write a c program to add two numbers. (5 Marks)
3. a) Explain the concept recursion with example program. (10 Marks)
b) Illustrate the concept of structure with syntax and an example program. (10 Marks)
4. a) List out the advantages of pointers. (8 Marks)
b) Explain in detail about dynamic memory allocation. (12 Marks)
5. a) Write a c program to find the sum of digits. (10 Marks)
b) Write a c program to find the product of three numbers. (10 Marks)
6. a) Explain the operators with example. (12 Marks)
b) Illustrate the diagrammatic representation of program execution process. (8 Marks)
7. a) Distinguish structure and union with example program. (12 Marks)
b) Write a c program using the concept of function. (8 Marks)