



JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

ICS 2304 PROGRAMMING PARADIGMS ASSIGNMENT

QUESTIONS (50 MARKS)

1. Discuss the following:
 - a) Data abstraction (5 Marks)
 - b) Constraint programming (5 Marks)
2. Give a taxonomy of major programming paradigms (8 Marks)
3. Describe the differences between the interpretative and compiled implementations of a programming language, emphasising the advantages and disadvantages (6 Marks)
4. Give a scenario to show how one can design a modular system by using named state. (8 marks)
5. Assume you have available an already-implemented abstract machine, C, how could you use it to implement an abstract machine for another language, L? (6 Marks)
6. Explain non-determinism in concurrent programming (4 Marks)
7. Write a function map which applies its first parameter (which will be a function) to all the elements of a list passed as its second argument. (8 Marks)