JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

UNIVERSITY EXAMINATIONS

SECOND YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR OF

ADMINISTARTION SUPPLY CHAIN MANAGEMENT

SCS 3123: FUNDAMENTALS OF PROGRAMMING

TIME: 2H0URS

<u>**Instructions:**</u>

    I.   This paper contains **Five** questions

    II.   Question one is compulsory

    III.   Answer any other two questions

QUESTION ONE

a) Critically examine the difference between machine language and assembly language   (8 Marks)

b) Explain why there was need to change from one programming language to another (12 Marks)

c) Discuss why a firm may decide to use a tailor made software (10 Marks)

QUESTION TWO

a) Define the functions of the following identifiers;

      i.   Char   (2 Marks)

      ii.   Integer   (2 Marks)

      iii. Boolean   (2 Marks)

      iv. Writeln   (2 Marks)

      v.   Read   (2 Marks)

b) State the functions of the following language translators;

      i)   Interpreter   (3 Marks)

      ii)   Compiler   (3 Marks)

      iii)   Assembler   (3 Marks)

c) What is procedural programming?   (1 Mark)

QUESTION THREE

a) Explain the following terms as used in programming;

i.   Pointer   (2 Marks)

ii.   Function   (2 Marks)

iii.   Structure   (2 Marks)

iv.   Source code   (2 Marks)

v.   Object code   (2 Marks)

vi.   Compiler   (2 Marks)

b) State the two types of software documentations   (4 Marks)

c) Explain each line of command of Pascal program below;

Program Lesson1_Program1;

Begin

Write('Hello World. Prepare to learn PASCAL!!');

Readln;

End.

(4 Marks)

QUESTION FOUR

Write an algorithm and draw a flowchart that will read the two sides of a rectangle and calculate its area. (20 Marks)

QUESTION FIVE

Describe the stages of program development cycle   (20 Marks)

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