



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

END OF SEMESTER EXAMS-APRIL 2014

(KISII L.C)

SCS 103:PROGRAMMING IN PASCAL

BED ARTS/SNE Y1S2

(SCHOOL BASED)

INSTRUCTIONS

- 1. Answer question 1 (compulsory) and any other 2 Questions**
- 2. Show all your workings where necessary**
- 3. Candidates are advised not to write on the question paper**

TIME: 2 HOURS

QUESTION 1 (30marks)

- a) Write a simple Pascal program to perform arithmetic operations (2marks)
- b) With examples discuss the operators used in Pascal programming (7marks)
- c) Distinguish between a variable and a constant in structured programming (2marks)
- d) Discuss the simple and compound statements with examples (4marks)
- e) Illustrate using example how switch statements are used in Pascal (7 marks)
- f) Using block diagram and appropriate syntaxes explain if-else and while control structures (8marks)

QUESTION 2 (20marks)

- a) Describe the control structures with program examples (8marks)
- b) Define the term loop structures (2marks)
- c) Write a simple program to demonstrate the use of loops in programming (6marks)
- d) Write a program in Pascal to demonstrate Fibonacci series (4 mark)

QUESTION 3 (20marks)

- a) What is an array ? (2mark)
- b) Arrays have played a vital role in industries and various organization/institution by handling large number of elements, with examples discuss the types of arrays and illustrate how they are used in Pascal programming (10marks)
- c) Explain any four Pascal data types with examples (8marks)

QUESTION 4 (20marks)

- a) Write a Pascal program to find the biggest of three numbers (8marks)
- b) Distinguish between procedures and functions with examples (8marks)
- c) State and Explain any 2 Pascal programming keyword (4marks)

QUESTION 5 (20marks)

- a) Discuss the pointers and show how they perform their functionality in programming (5marks)
- b) Explain how to declare 3 dimensional array in pascal (6 marks)
- c) Explain source code in pascal (4 marks)
- b) Describe the Pascal statements and expressions with examples (5 marks)
- c)

