

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2015/2016

FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF BACHELOR OF SCIENCE, BACHELOR OF EDUCATION AND BACHELOR OF ARTS WITH INFORMATION TECHNOLOGY

CITY CAMPUS-(DAY/EVENING/WEEKEND)

UCI 101: FOUNDATIONS OF INFORMATION TECHNOLOGY

Date: 5th December, 2015

Time: 9.00 - 11.00 am

INSTRUCTIONS:

SECTION A: Attempt question ONE which is compulsory (30 marks)

SECTION B: Attempt any TWO questions (20 marks each)

SECTION A : COMPULSORY QUESTION (30 MARKS) QUESTION 1 (a) Define the following terms as used in Information Technology: (i) Data (2marks) (ii) Bucketing (2marks) (iii) Batch Processing (2marks) (b) With examples, explain how hybrid computers work (6marks) (c) Briefly describe a plotter. (3 marks) (d) State the full meaning of the term GIGO and using examples explain its implication in the Information Technology environment.. (6marks) (e) State the contribution of the following personalities in the development of the Modern computer. (a) John Von Neumann (3 marks) (b) Blaise Pascal (3 marks) State and explain any THREE short comings of Low level languages. (3 marks) SECTION B: ATTEMPT ANY TWO QUESTIONS (20 MARKS EACH) OUESTION 2 (a) Briefly discuss how human limitations have been overcome by computers as information processors (b) Identify the THREE types of translators and explain how each of them works. (6marks) (c) Briefly explain the function of each of the following in a modern computer. Control Unit (ii) DVD-ROM (iii) Data bus (6 marks) QUESTION 3 One of the functions of an operating system is to manage processes. Discuss this with (a) special reference to (i) Multiprocessing. (3marks) (ii) C.P.U time slice. (3marks) Non-emptive processing (4marks) Explain while giving examples, how computers are classified according to the purpose for which they are built. (10 marks) **QUESTION 4** (a) State and explain any FIVE ways employers would misuse computers at their work (b) What is a User Interface? State and explain the characteristics the THREE common User Interfaces in computer Operating systems. (10 marks) QUESTION 5 Discuss the characteristics of the following languages: (a)

(8marks)

(6marks)

Assembly languages,

Discuss the removable storage devices of a computer system.

Your local school's principal wants to buy an Integrated Package for the school. Explain to him how the school is bound to benefit from the package. (6marks)

(ii)

(b)

(c)