



MACHAKOS UNIVERSITY

University Examinations 2019/2020 Academic year

SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATION MANAGEMENT AND CURRICULUM STUDIES

AUGUST SESSION EXAMINATION FOR

DOCTOR OF PHILOSOPHY IN EDUCATION

EMP 904: COMPUTER TECHNOLOGY IN EDUCATION

DATE: SCHOOL BASED

TIME:

INSTRUCTIONS

- 1. Answer question ONE and any other THREE**
- 2. Do not write anywhere on the examination paper**

QUESTION ONE (15 MARKS)

- a) Explain the competitive advantage of integrating ICT in teaching over the traditional approaches in secondary schools (3 marks)
- b) By the use of relevant examples, explain the applications of Information and Communication Technology in educational management in educational institutions (6 marks)
- c) With relevant examples explain the impact of e-learning in education (6 marks)

QUESTION TWO (15 MARKS)

- a) Evaluate the role of school administrators in assessing the use of computers in classroom teaching (6 marks)
- b) Compare and contrast the traditional lesson planning methods and computer based lesson planning methods (6 marks)
- c) Outline computer technology standards for teachers by the ministry of Information Communication and Technology (3 marks)

QUESTION THREE (15 MARKS)

- a) Discuss Information Communication and Technology productivity and management programmes available on the internet (10 marks)
- b) Explain important considerations that teachers should make when evaluating software for students (5 marks)

QUESTION FOUR (15 MARKS)

- a) Using the example of Machakos University, describe the application of the National Education and Technology Standards (NETS) as founded by the US Department of Education (5 marks)
- b) Explain the application of computer and technology teacher productivity tools in curriculum implementation (10 marks)

QUESTION FIVE (15 MARKS)

- a) Describe drill and simulation of teaching packages in education practice (10 marks)
- b) By the use of an illustration, describe the features of a computer based lesson plan (5 marks)