



(Knowledge for Development)

KIBABII UNIVERSITY

**UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER
MAIN EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF EDUCATION
(SCIENCE)**

COURSE CODE: ESM 315

COURSE TITLE: COMPUTER EDUCATION

DATE: 15/07/2021

TIME: 9:00 AM-11:00AM

INSTRUCTIONS TO CANDIDATES

Answer Question One and any other TWO Questions

TIME: 2 Hours

This Paper Consists of 3 Printed Pages. Please Turn Over. ►

Question One (30 Marks)

- a) State **Five** factors that may be considered when planning a competence based curriculum lesson in computer studies. (5 marks)
- b) Using suitable examples Explain **three** factors to be considered when selecting teaching and learning resources that may be used in teaching of the topic “Classification of computers” in secondary school syllabus (9 marks)
- c) As a computer studies teacher you have been assigned to teach a desktop publishing package in form two.
 - (i) Explain **four** teaching and learning activities that may take place in a computer laboratory (8 marks)
 - (ii) Explain **four** professional records a teacher should have while teaching computer studies in a computer laboratory (8 marks).

Question Two (20 Marks)

- a) Using suitable examples, describe the **five** areas one need to consider while observing a computer studies lesson (10 marks)
- b) Using suitable examples describe any **five** factors a computer studies teacher should consider when preparing schemes of work (10 marks)

Question Three (20 Marks)

A compute teacher must enforce safety precautions in a computer laboratory.

- a) Discuss reasons for having in place safety precautions in a computer laboratory (6 marks)
- b) Explain **four** characteristics of a computer laboratory layout (8 marks)
- c) Outline **six** duties of a computer laboratory technician (6 marks)

Question Four (20 Marks)

- a) Explain **six** tools used in integrating ICT in a computer lesson (12 marks)
- b) Describe **Four** factors to consider in determining whether subject content can be delivered through ICT (8 marks).

Question Five (20 Marks)

- a) Differentiate between: -
- (i) Heuristic and didactic learning approaches (4 marks)
 - (ii) Assessment and evaluation (4 marks)
- b) During the COVID-19 pandemic, online learning is highly supported. With examples, explain **four** benefits of online assessment (8 marks)
- c) During teaching and learning process, explain the interventions for learners with visual impairments in a computer class (4 marks)