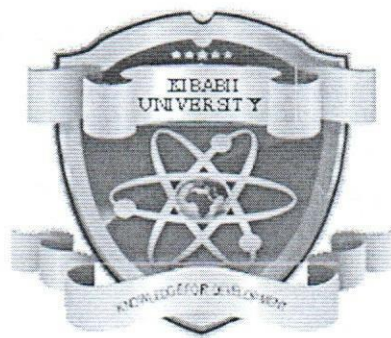


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KIBABII UNIVERSITY

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

FIRST YEAR

MAIN EXAMINATIONS

FOR THE POST GRADUATE DIPLOMA

IN

EDUCATION

COURSE CODE: ESM 725E

COURSE TITLE: BIOLOGICAL SCIENCES EDUCATION

DATE: 9TH/SEPTEMBER/2022

TIME: 8AM-10AM

INSTRUCTIONS TO CANDIDATES

Answer question one (compulsory) and any other two questions

TIME: 2 Hours

Kibabii University observes ZERO tolerance to
examination cheating

Question One (30 Marks)

- a). List three components in the teaching of biology (3 marks).
- b). Briefly explain the two approaches of teaching biology (4 marks)
- c). Explain the procedure that learners need to follow when they undertake project work (5 marks)
- d). Describe the characteristics of well stated instructional objectives (5 marks).
- e). Outline the considerations that a biology educator needs to make when designing of activities of a biology lesson (8 marks).
- f). State the factors that are likely to affect the reliability and validity of a biology examination (5 marks)

Question Two (20 Marks)

- a). Discuss the criteria a teacher should use in the choice of strategy and method of teaching a topic in biology (10 marks).
- b). Explain five general objectives set to be achieved by the end of a biology lesson (10 marks)

Question Three (20 Marks)

- a) Discuss the various resources for the teaching of biology (20 marks).

Question Four (20 Marks)

- a) Discuss the three phases of a lesson plan (6 marks)
- b) Explain the major entries of a Scheme of Work (14 marks)

Question Five (20 Marks)

- a). Explain the main purposes of assessment in biology education (8 marks)
- b). Construct a sample table of specifications to facilitate a biology test construction (12 marks).