

MACHAKOS UNIVERSITY 2019 EXAMINATIONS

ECT202: INSTRUCTIONAL METHODS.

Answer Question One and any two others.

Question One.

- i. Explain the difference between Teaching approach, teaching method and teaching strategy. (6 marks).
- ii. Describe the fundamental differences between: Heuristic and Expository approaches. (4 marks).
- iii. State ONE SMART objective in each of the domains: **(6 marks)**.
 - a. Cognitive.
 - b. Psychomotor.
 - c. Affective.
- iv. Prepare a one-week scheme of work for one of your teaching subjects. (6 marks).
- v. Make a forty-minute lesson plan for the first lesson in your schemes of work. (8 marks).

Question Two:

- (i) Explain **any SIX** forms of individual differences common in the classroom. (12 marks).
- (ii) Discuss **four ways** in which a teacher may address the challenge of Individual differences. (8 marks).

Question Three:

- (a) Contrast the Discussion Method with the Project Method of teaching. (10 marks).
- (b) Explain the significance of each of the following components of a Lesson Plan: (10 marks).
 - i. The Objectives.
 - ii. The Timing of each step.
 - iii. The Learning Activities.
 - iv. The Teaching Resources.
 - v. The Remarks.

Question Four:

- (a) Chose **two of the following methods** of teaching and explain how to **Implement it in a classroom: (20 marks)**.

- (i) *Group discussion*
- (ii) *Role play*
- (iii) *Class Experiment*
- (iv) *Field Investigation*

- Q5. (i) Explain why multiple channels of communication are preferred. (5 marks).
- (ii) Explain any *three models of Motivation for the classroom. (15 marks).*

MACHAKOS UNIVERSITY 2019 EXAMINATIONS

ECE: 206: MATH AND SCIENCE FOR ECE – REGULAR.

Answer Question One and any two others.

Question One:

- (i) Explain **how you** would introduce the pre-number activities of *pairing number Symbols with picture objects to a pre-primary 2 class*. (INCLUDE Strategies and Resources). (12marks).
- (B) Explain *four steps* in the **Demonstration of good practices in caring for the Environment**. (12 marks).
- (C) Discuss any **four principles of** teaching Mathematics and Science in ECE. (8 marks).

Question Two:

The Science process-skills of **Observing, Classifying, Measuring, Investigating and Communicating are critical in ECE**. Describe how you would plan for these with reference to a named practical activity in ECE. (20 marks).

Question Three:

Discuss how each of the following documents assist the teacher in planning for Teaching. (20 marks).

- I. **The content Syllabus.**
- II. **The Schemes of Work.**

Question Four:

Explain the activities you would use to develop **ONE** of the following: (20 marks).

- I. Matching and pairing things in groups as pre-requisite to the concepts equal, unequal.
- II. Making accurate observation on characteristics of real objects.

Question Five:

Write briefly about the importance of the following components of Schemes of work:

- I. Specific learning outcome. (5 marks).
- II. Key inquiry question. (5 marks).
- III. Learning experience. (5 marks).
- IV. Learning resources. (5 marks)