



# MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

FIRST YEAR SECOND SEMESTER EXAMINATION FOR

DIPLOMA IN EARLY CHILDHOOD EDUCATION

SCIENCE ACTIVITIES

DATE: 18/4/2019

TIME: 8:30 – 11:30 AM

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## INSTRUCTIONS

Answer any question and other 4 questions.

1.
  - a) Explain six situations that qualify a science activities teacher to use demonstration method of teaching. (12 marks)
  - b) Outline four advantages of the experimentation method of teaching science activities (8 marks)
2.
  - a) Describe five themes taught to preschool levels in ECDE curriculum. (10 marks)
  - b) Highlight five characteristics of a child centred science activities lesson. (10 marks)
3.
  - a) State five factors to consider when choosing a recording method in the effective teaching science activities. (10 marks)
  - b) Describe five teaching methods applied by science activities teachers in teaching to form a sound basis for science activities to their learners. (10 marks)
4.
  - a) Enumerate five methods of record keeping for science activities class. (10 marks)
  - b) Highlight the first five scientific steps in the process of solving problems. (10 marks)

5. a) Describe five skills developed by children when learning science. (10 marks)
- b) Explain the nature of African Indigenous science. (10 marks)
6. a) State five factors to bear in mind when choosing a recording method. (10 marks)
- b) Draw a simple weather chart to depict observations made during a wet season. (10 marks)
7. a) Define the following terminologies. (10 marks)
- i) Science
  - ii) Process
  - iii) Hypothesis
  - iv) Skill
  - v) Disposition
- b) Cite any five general objectives of Early Childhood Development and Education (ECDE) (10 marks)