



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A CONSTITUENT COLLEGE OF JKUAT)

(A Centre of Excellence)

Faculty of Applied and Health Sciences

DEPARTMENT OF PURE AND APPLIED SCIENCES

DIPLOMA IN SCIENCE LABORATORY TECHNOLOGY

(DSLT 10 S)

AAB 2303 : BIOMEDICAL TECHNIQUES MUSEUM/HERBARIUM TECHNIQUES

SPECIAL/SUPPLEMENTARY: EXAMINATIONS

SERIES: FEBRUARY 2013

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this paper

- *Answer booklet*

This paper consists of **FIVE** questions.

Answer Question **ONE (compulsory)** and any other **TWO** questions

Question ONE

- a) Explain the meaning of the following terms
 - (i) Aquarium (1mark)
 - (ii) Insectarium (1mark)
 - (iii) Formicarium (1mark)
 - (iv) Paludarium (1mark)
- b) Explain how a herbarium folder is made (4marks)
- c) List chemicals repellants used for preventing infestation in herbaria (4marks)
- d) State materials used for construction of a green house. (4marks)
- e) State the information required during picking of herbarium specimen (4marks)
- f) Describe conditions for bedding materials used for rodents. (4marks)
- g) State clinical signs of a disease in laboratory animals. (4marks)
- h) List areas included in the aquarium management (2marks)

Question TWO

- a) Explain the environmental controls of a vivarium (8marks)
- b) Explain precautionary measures to be observed in the laboratory. (7marks)

Question THREE

- a) Explain various mounting techniques for herbarium specimen. (7marks)
- b) Describe the requirement of an animal house or room (8marks)

Question FOUR

- a) Describe precautions taken during storage of herbarium specimen (7marks)
- b) Explain areas to be checked daily in an animal house (8marks)

Question FIVE

- a) Explain the arrangement of specimens for display (7marks)
- b) Describe the management of water in an aquarium. (8marks)