



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR: BACHELOR OF SCIENCE IN MARINE RESOURCE MANAGEMENT

BSMR/16S/YEAR 2/ SEMESTER 2
AES 4109: SURVEY OF THE PLANT KINGDOM
SPECIAL SUPPLEMENTARY EXAMINATION
SERIES: SEPT. 2017
TIME: 2 HOURS

Instructions to Candidates

This paper consists of FIVE questions

Answer question ONE (COMPULSORY) and any other TWO questions.

This paper consists of two printed pages.

Mobile phones are NOT allowed in the examination room

Question one (30 Marks)

- a. State the major characteristics of of the conifers (4 marks)
- b. Name the 5 major divisions of the algae(4 marks)
- c. State four significance of respiration (4 marks)
- e. State the differences between cyclic and non-cyclic photophosphorylation (6marks)
- f. i) What is anaerobic respiration? (2 marks)

ii. State the processes or conditions when anaerobic respiration takes place (3 marks)
- g. Explain any three sources of primary producers in the marine water (6 marks)

Question two

- a. Describe the various methods of asexual reproduction (16 marks)
- b. State the main difference between asexual and sexual reproduction (4 marks)

Question three

Describe the life cycle of the fern (20 marks)

Question four

Explain the factors that influence the rate of respiration (20 marks)

Question five

- a. With a suitable diagram, describe the external morphological features of a plant (10 marks)
- b. Describe the main function of the stem of a plant (10 marks)