

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF ENVIROMENT & HEALTH SCIENCES UNIVERSITY EXAMINATION FOR:

DEGREE IN MARINE RESOURCE

BSMR 14S/YEAR3/SEMESTER 1 AES 4302: WASTE MANAGEMENT IN MARINE ENVIRONMENT

END OF SEMESTER EXAMINATION

SERIES:DECEMBER2016

TIME: 2HOURS

DATE: Pick DateSelect MonthPick Year

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **TWO**Section(s). Attemptquestion ONE (Compulsory) and any other TWO questions.

Circle the correct answer in section A.

Question One (Compulsory) (30 marks)

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- a) i. What are hazardous waste? (2 marks)
 - ii. What are the FOUR characteristics of a hazardous waste? (4 marks)
- b) Waste can be classified in a variety of ways. State the types of waste that fall under the following classes.
 - i. State (3 marks)
 - ii. Effect (2 marks)
 - iii. Nature (2 marks)
 - iv. Components (2 marks)
 - v. Life span/longevity (2 marks)
- c) i. Discuss the FOUR ways solid waste can be categorised (4 marks)

ii. Give FIVE reasons why waste needs to be classified and categorised (5 marks)

d) Name the FOUR characteristics types of radiation are based on (4 marks)

Question Two

Highlight solid waste disposal methods in a marine environment. (20 marks)

Question Three

Discuss FIVE sources of wastes and each of their composition (20 marks)

Question Four

Discuss the ANY TWO methods of treating sludge (20 marks)

Question Five

Discuss the FOUR central principles of integrated waste management (20 marks)