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(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATIONS

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIO-RESOURCE
CONSERVATION AND MANAGEMENT**

COURSE CODE: SZL 413

COURSE TITLE: MARINE BIOLOGY

DATE: Tuesday 2nd February 2021 **TIME:** 2:00 – 4:00 p.m.

INSTRUCTIONS TO CANDIDATES

Answer question **ONE** [1] and **ANY** other **TWO** [2] questions

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

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QUESTION 1- COMPULSORY (30 MARKS)

- (a) Briefly describe the classification of lakes according to thermal stratification. (5 marks)
- (b) Differentiate between the ocean waves and ocean currents (5 marks)
- (c) State the oceanic gases and their sources. (5 marks)
- (d) Explain why the coastal areas are most productive areas. (5 marks)
- (e) Describe how the sea plays an important role in hydrological cycle. (5 marks)
- (f) Briefly describe how marine animals tend to provide a signal on the rise and fall of the tide. (5 marks)

QUESTION 2 (20 MARKS)

Climate change has had adverse effects on marine ecosystems in regard to marine habitats and marine life. Discuss.

QUESTION 3 (20 MARKS)

Marine ecosystems are rich in bioresources. Describe the intentions of blue economy in Kenya in utilizing these resources and its impacts on vision 2030.

QUESTION 4 (20 MARKS)

Marine pollution is raising an alarm on health of marine life. Discuss how the various pollutants, giving examples are leading to deaths in marine life.

QUESTION 5 (20 MARKS)

Describe the ecological and economic importance of the seagrasses as a marine plant.