



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR
THIRD YEAR SECOND SEMESTER**

**SCHOOL OF NATURAL RESOURCE, TOURISM
AND HOSPITALITY
BACHELOR OF ENVIRONMENTAL STUDIES
(BIOLOGY AND HEALTH)**

COURSE CODE: EBH 3228

**COURSE TITLE: WETLAND ECOLOGY AND
CONSERVATION**

DATE: 7TH OCTOBER, 2021

TIME: 8:30-10:30 HOURS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in section **A** and any other **THREE** in section **B**.

This paper consists of 2 printed pages. Please turn over

SECTION A – 25 MARKS

1. Explain in brief the following concepts as used in wetland in Wetland Ecology
 - i) Ramsar Wise use of Wetlands **(2 marks)**
 - ii) Eutrophication Factors **(2 marks)**
 - iii) Water recharge and discharge **(2 marks)**
 - iv) Hydric soils **(2 marks)**
2. Describe hydrology and hydroperiod of wetlands **(5 marks)**
3. Describe 5 major challenges faced in conserving Kenya's wetlands **(5 marks)**
4. Explain how policy, institutional and legal frameworks have been used in the conservation of wetlands in Kenya **(5 marks)**
5. Explain the importance of an Integrated Water Resource Management (IWRM) approach to wetland management **(4 marks)**

SECTION B - 45 MARKS

6. Discuss the socio-economic and ecological significance of the Tana delta area and the associated impacts of human development **(15 marks)**
7. Discuss the key ecological values and socio-economic benefits of wetland ecosystems **(15 marks)**
8. Describe five (5) advantages of community-based approaches in the conservation and management of wetlands in the face of a lack of a wetland management policy in Kenya. **(15 marks)**
9. "Wetlands are wastelands that should be converted into development". Discuss this statement in the context of wetland conservation urban Kenya **(15 marks)**

END//