

OFFICE OF THE DEPUTY PRINCIPAL ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS 2020 /2021 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF **EDUCATION SCIENCE**

COURSE CODE: ESB 412

COURSETITLE:

CONSERVATION, MANAGEMENT OF

NATURAL RESOURCES AND ETHNOLOGY

DATE:

16TH JULY, 2021

TIME: 08.00 AM – 11.00 AM

INSTRUCTIONS TO CANDIDATES

SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

REGULAR – MAIN EXAM

ESB 412: CONSERVATION, MANAGEMENT OF NATURAL RESOURCES AND ETHOLOGY

STREAM: BED (SCIENCE) **DURATION: 3 Hours** INSTRUCTIONS TO CANDIDATES Answer ALL questions from section A and any THREE from section B. i. Diagrams should be used whenever they serve to illustrate the answer. ii. iii. Do not write on the question paper. **SECTION A (24 MARKS) Question One** a) Differentiate between climate and weather. (2 Marks) b) Explain any three elements of air photo interpretation. (6 Marks) c) Give an account of any four problems that would arise as a result of not conserving plant genetic resources. (4 Marks) **Question Two** a) Explain three reasons why governments would adopt in situ conservation (6 Marks) of plant genetic resources of ex situ approach. b) Explain the concept sustainable development and show its relevance to a developing country like Kenya. (4 Marks) c) Justify the main reason why governments need to manage natural (2 Marks) resources. **SECTION B (36 MARKS) Question Three** a) Give an account of the relationship between of resources and economic development. (6 Marks) b) Explain how ecological succession can affect the existence of wild life in their natural environments. (3 Marks) c) Explain any two approaches that can be used to control wild life damage

(3 Marks)

on forest crops.

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Question Four a) Discuss the tile concept of weak sustainability and show its validity in natural resource management. (8 Marks) b) Explain the impact of small animals on forest ecology. (4 Marks) **Question Five** a) Define a disease. (2 Marks) b) Explain any five wildlife diseases, animals infected and identify the possible control methods. (10 Marks) **Question Six** a) Discuss any four beneficial effects of forestry practices on wild life. (8 Marks) b) Relate ecological succession to the management of forest resources. (4 Marks) **Question Seven** a) Differentiate between biological resources and non-renewable resources. (2 Marks) b) Discuss the characteristics of renewable natural resources. (10 Marks)

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