

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF SPATIAL PLANNING

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN WATER RESOURCE AND ENVIRONMENTAL MANAGEMENT SEMESTER 2016/2017 ACADEMIC YEAR

CENTRE: MAIN CAMPUS

COURSE CODE: PES 3321

COURSE TITLE: ENVIRONMENTAL EDUCATION AND EXTENSION

EXAM VENUE: STREAM: SPATIAL PLANNING

DATE: EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer question 1 (compulsory) and ANY other 2 questions.
- 2. Candidates are advised not to write on the question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

QUESTION ONE

a.) Explain the following weather phenomenon:-

i.) Lanina (3marks)

ii.) El nino (3 marks)

iii.) Dipole (3 marks)

iv.) Rain seeding (3 marks)

v.) Fog harvesting (3 marks)

- b.) Some pastoralist communities have sold part of their land, using the proceeds to increase their livestock herds. Discuss the dangers posed by their action. (10 marks)
- c.) Explain the importance of environmental education to all school going children. (5 marks)

QUESTION TWO

- a.) Discuss the advantages and disadvantages of participatory learning and action approach in an environmental education and extension community initiative. (10 marks)
- b.) Explain the reasons why environmental and ecology standards should be explained to all stakeholders within a settlement area. (10 marks)

QUESTION THREE

- a.) Owimbi Anglican Church's women leader, Nyagem Lelo, held a seminar for their faithful on the importance of Environmental Impact Assessment (E.I.A) for all the church's physical projects. Explain her points. (10 marks)
- b.) Discuss the measures that the villagers may undertake to reverse the effects of soil erosion and leaching. (10 marks)

QUESTION FOUR

- a.) Ben Oluoch plans on researching on environmental issues affecting Bondo County. Explain to him how to access primary and secondary data for his research. (10 marks)
- b.) Discuss how to take samples for study of a specific area's rainfall PH value. (10 marks)

QUESTION FIVE

(10 marks)

b.) Explain two Sustainable Goals (SGs) related to the environment.

(10 marks)