



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF SPATIAL PLANNING
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
RENEWABLE ENERGY AND BACHELOR OF SCIENCE IN CONSTRUCTION
MANAGEMENT
SEMESTER 2016/2017 ACADEMIC YEAR

RESIT EXAM

CENTRE: MAIN CAMPUS

COURSE CODE: PES 4311

COURSE TITLE: ENVIRONMENTAL IMPACT ASSESSMENT AND AUDITING

EXAM VENUE:

STREAM: ENGINEERING

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.**

1. (a) Explain the following terminologies as used in Environmental Impact Assessment /Environmental Audit (EIA/EA)
 - (i) Stakeholders (2 marks)
 - (ii) Magnitude (2 marks)
 - (iii) Mitigation (2 marks)
 - (b) Outline the various levels in which impacts can be detected (8 marks)
 - (c) Discuss the principles of EIA (10 marks)
 - (d) List sensitive areas commonly detected during EIA (6 marks)

2. (i) Explain initial environmental examination and its importance in EIA (6 marks)
(ii) Discuss the first four phases of EIA process (14 marks)

3. (i) Discuss the levels of public participation and justify their importance (12 marks)
(ii) Discuss the long term benefits of EIA (8 marks)

4. (i) List the various impact identification methods (5 marks)
(ii) Discuss the main objectives of mitigation (15 marks)

5. (i) Discuss the various categories of stakeholders in EIA process (15 marks)
(ii) List impact prediction methodologies applicable in EIA (5 marks)