



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF ENGINEERING AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS FOR THE DIPLOMA IN BUILDING AND CIVIL  
ENGINEERING**

**3<sup>RD</sup> YEAR 1<sup>ST</sup> SEMESTER 2018/2019 ACADEMIC YEAR**

**CENTRE: MAIN CAMPUS**

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**COURSE CODE: TBC 2324**

**COURSE TITLE: CONSTRUCTION IMPACT ON ENVIRONMENTAL QUALITY**

**EXAM VENUE: STREAM: DIP BLD & CIVEN**

**DATE: ../12/2018 EXAM SESSION:**

**DURATION: 2 HOURS**

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### **Instructions**

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

### Question 1

- a) Define the following terms:
  - i. environment. (7 mks)
  - ii. Environmental quality.
  - iii. Environmental impact assessment. (7 mks)
- b) Explain three stages through which built environment has evolved. (9 mks)
- c) Differentiate between micro-environment and macro-environment. (4 mks)
- d) Highlight four projects that require environmental impact assessment. (4 mks)
- e) Explain three ways of eliminating wastes from construction sites. (6 mks)

### SECTION B

**Answer any two questions from this section.**

### Question 2

- a) Explain any four types of construction projects giving examples in each case. (8 marks)
- b) i. Define the term environmental pollution. (2 marks)
  - ii. Explain any four major impacts of construction projects to environment. (8 marks)
- c) Highlight two methods of controlling water pollution. (2 marks)

### Question 3

- a) State four aims of environmental impact assessment. (4 marks)
- b) Explain the procedure of applying for an EIA Licence. (10 marks)
- c) Highlight the contents of Environmental Impact Assessment report. (6 marks)

### Question 4

- a) Define the term environmental monitoring. (2 marks)
- b) Explain the process of environmental monitoring and audit. (8 marks)
- c) Explain how climate change may affect construction practice stating examples where necessary. (10 marks)