



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF ENGINEERING AND TECHNOLOGY

**UNIVERSITY EXAMINATION FOR THE DEGREE IN SCIENCE IN CONSTRUCTION
MANAGEMENT**

**4TH YEAR 1ST SEMESTER 2024/2025 ACADEMIC YEAR
CENTRE: MAIN CAMPUS**

COURSE CODE: TCB 1403

COURSE TITLE: SITE ORGANIZATION AND MANAGEMENT

EXAM VENUE: STREAM: BSc. CONSTRUCTION MGT

DATE: 8 /1/2025 EXAM SESSION:14-16.00 HRS

DURATION: 2 HOURS

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 ONE (30 Marks)

- a) Explain the following terminologies or phrases commonly used in construction sites **(10 Marks)**
 - i. Disaster
 - ii. Workman's compensation
 - iii. Pre-bid conference
 - iv. Provisional sum
 - v. Summary dismissal
- b) Briefly explain the difference between a safety officer and a factory inspector **(4 Marks)**
- c) State ten (10) items you would report in a daily report of an on-going project **(5 Marks)**
- d) Briefly state four negative impacts a road project can cause on the immediate environment **(2 Marks)**
- e) Highlight four (4) high level hazards/risks in connection with construction sites of multistoreyed projects in urban set ups **(4 Marks)**
- f) The Constitution of Kenya (2010) guarantees basic rights to the worker. Briefly highlight these basic rights with reference to Articles 27 and 41 **(5 Marks)**.

QUESTION TWO (20 Marks)

You have been employed in a construction company as a disaster management expert. As an expert in disaster management answer the following questions:

- a) Explain the following terms with regard to emergency and disaster management **(8 Marks)**
 - i. Emergency plan
 - ii. Assembly areas / point
 - iii. Protective gear
 - iv. Evacuation diagram
- b)
 - i. State strategies for effective response by emergency or disaster management teams **(9 Marks)**.
 - ii. Highlight three measures for minimizing dangers associated with crumbling freshly casted concrete elements **(3 Marks)**.

QUESTION THREE (20 Marks)

Assuming you have been appointed project manager for JOOUST infrastructural projects. Please answer the following questions related to project management.

- a) As a project manager, briefly highlight to your employer the key phases projects undergo from initiation to operation phase **(10 Marks)**.
- b) Discuss five temporary structures that needs to be erected in building construction site prior to commencement of contract works **(10 Marks)**

QUESTION FOUR (20 Marks)

You have been appointed a project manager for a project initiated by Kisumu County Government but currently at tendering stage. Answer the following questions related to public procurement.

- a) Define the term “procurement” **(2 Marks)**
- b) Briefly discuss the reasons behind the legislation of the current public procurement act in Kenya **(4 Marks)**.
- c) As a project manager, advise your employer on the relative advantages and disadvantages of four (4) common procurement methods practiced in Kenya **(14 Marks)**

QUESTION FIVE (20 Marks)

You have been employed as a construction manager by a construction based in the City of Nairobi. As a construction manager, discuss common accidents you would expect to occur in a multi storied building construction site located in the Central Business District of the city of Nairobi including measures you would institute to minimize them **(20 Marks)**

JOOUST OBSERVES ZERO TOLERANCE TO EXAMS CHEATING