

## JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF ENGINEERING AND TECHNOLOGY

## UNIVERSITY EXAMINATIONS FOR THE DIPLOMA IN CONSTRUCTION MANAGEMENT (TVET)

1<sup>ST</sup> YEAR 2<sup>ND</sup> SEMESTER 2023/2024 ACADEMIC YEAR

**CENTRE: MAIN CAMPUS** 

**COURSE CODE: TDC 2125** 

COURSE TITLE: CONSTRUCTION MATERIALS, PLANT, TOOLS AND

**EQUIPMENT MANAGEMENT** 

**EXAM VENUE:** STREAM: Dip CONSTRUCTION MGT

**DATE: ../04/2024 EXAM SESSION:** 

**DURATION: 3 HOURS** 

## **Instructions**

- 1. Answer ALL questions in Section A (Compulsory) and ANY other three questions in Section B
- 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

## **SECTION A (30 Marks)**

1. a) Define the following terms: i. Site facility (2 Marks) ii. Workability (2 Marks) iii. Plant (2 Marks) iv. Equipment (2 Marks) Curing (2 Marks) b) What is meant by seasoning of timber? Distinguish between natural and artificial (6 Marks) seasoning. c) Explain any three tests performed on stones to find their properties. (12 Marks) d) Briefly explain what verification of documents entails in construction. (2 Marks) **SECTION B (40 Marks)** 2. a) Explain the roles of machines in construction. (10 Marks) b) List any five earth moving equipment (5 Marks) c) Explain factors to be considered in the process of equipment selection. (5 Marks) 3. a) Write short notes on: i. Segregation of concrete (2 Marks) Bleeding of concrete ii. (2 Marks) iii. Water-cement ratio (2 Marks) Batching of concrete iv. (2 Marks) b) Describe three tests on concrete. (12 Marks) 4. a) What is standard equipment schedule? (4 Marks) b) Draw and design a standard equipment schedule. (16 Marks) 5. a) What is standard material schedule? (4 Marks) b) Draw and design a standard material schedule. (16 Marks)