



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF ENGINEERING AND TECHNOLOGY
UNIVERSITY EXAMINATIONS FOR THE DIPLOMA IN CONSTRUCTION
MANAGEMENT (TVET)
2ND YEAR 1ST SEMESTER 2022/2023 ACADEMIC YEAR
CENTRE: MAIN CAMPUS**

COURSE CODE: TDC 2224

COURSE TITLE: CONSTRUCTION WORKS II

EXAM VENUE: STREAM: Dip CONSTRUCTION MGT

DATE: ../12/2023 EXAM SESSION:

DURATION: 2 HOURS

Instructions

- 1. Answer question 1 (Compulsory) and ANY other three 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**

SECTION A [40 MARKS]

Answer all the questions in this section

1. When classifying roof according to their spans, we have flat roofs and pitched roofs. List any **FOUR** types of pitched roofs. (4 Marks)
2. Name **THREE** Materials that you would use as roof coverings. (3 Marks)
3. In the later stages of the building process, finishes are usually applied to buildings. State **THREE** functions of applying finishes in construction works. (3 Marks)
4. Differentiate between plastering and rendering. (4 Marks)
5. Knowledge of types of floor finishes is important during execution of construction works. Highlight any **FOUR** common types of floor finishes (4 Marks)
6. State the advantage of using Aluminum doors over steel related doors (2 Marks)
7. With the aid of well-labelled sketches, distinguish between a flush and a panel door (6 Marks)
8. During construction works there is a point we use the term 'Cladding'. Briefly define the term cladding. (2 Marks)
9. Painting works are very important for almost all buildings. List **FOUR** essential tools used in painting works. (4 Marks)
10. Windows are amongst some of the openings in buildings.
 - I. List **FOUR** types of windows in Construction works. (4 Marks)
 - II. Highlight **TWO** parts of a window. (2 Marks)
11. After construction is completed and the project is handed over, there is still need for maintenance and repair works. Differentiate between Maintenance and Repair (2 Marks)

SECTION B (60 MARKS)

(Answer any THREE (3) questions in this section)

12. On an interview panel you are asked to describe the procedure that you would use to fix door frames and lining. Describe the procedure you would use to:
 - i. Fix a frame or lining into place as the wall is being built (10 marks)
 - ii. Fix a frame or lining into place after the wall has been built (10 Marks)
13. Floor finishes and painting are some of the finishing works that are carried out in construction.

- i. Floor finishes are applied to a structural base and may form part of the floor structure. Explain five functions that floor finishes are required to fulfill (10Marks)
 - ii. Discuss three basic compositions of any paint (6 Marks)
 - iii. Briefly explain two main functions of applying paint to buildings (4 Marks)
14. For a roof to achieve its intended purpose it has to meet certain functional requirements.
- i. Discuss any five functional requirements of a roof. (10 Marks)
 - ii. The roof is made up of different parts and structures. Draw and label the following parts of a roof.
- | | | |
|-------------|----------------|--------------|
| Tie beam | Wall plate | Facia Boards |
| Rafter | Struts | |
| Purlins | King Post | |
| Ridge Piece | Roof coverings | (10 Marks) |
15. Building inspection is carried out based on the type of facility and Occupational Safety and Health Act.
- i. One type of Building Inspection is the Visual Inspection. Explain **FIVE** objectives of carrying out Visual Inspections (10 Marks)
 - ii. Building maintenance is carried out based on the basis of the inspection report. Discuss any **FIVE** advantages of carrying out maintenance on buildings. (10 Marks)