



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF ENGINEERING AND TECHNOLOGY

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

3RD YEAR 1ST SEMESTER 2018/2019 ACADEMIC YEAR

CENTRE: MAIN CAMPUS

COURSE CODE: TCM 3313

COURSE TITLE: MEASUREMENTS FOR CONSTRUCTION WORKS I

EXAM VENUE: STREAM: BSc CONSTRUCTION MGT

DATE: ../12/2018 EXAM SESSION:

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**

TCM 3313 Bsc Construction management

Measurements for Construction works 1

Instructions; Answer Question one and any other two

QUESTION ONE (30 Marks)

Take off quantities for all the substructure works as per attached drawing No.001

QUESTION TWO (20 Marks)

- a) Take off quantities for internal doors and windows as per attached drawing (15 Marks)*
- b) State and describe five elements in a building (5 Marks)*

QUESTION THREE (20 Marks)

Take off quantities for the superstructure wall and concrete frame as per drawing No 001

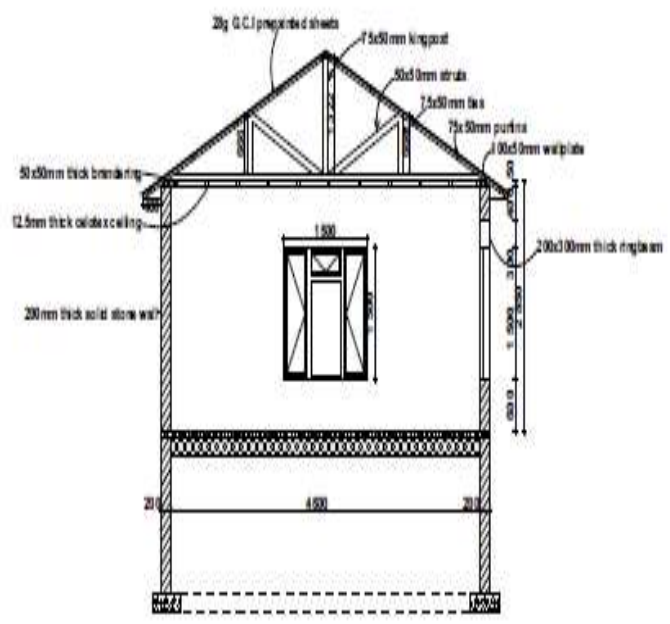
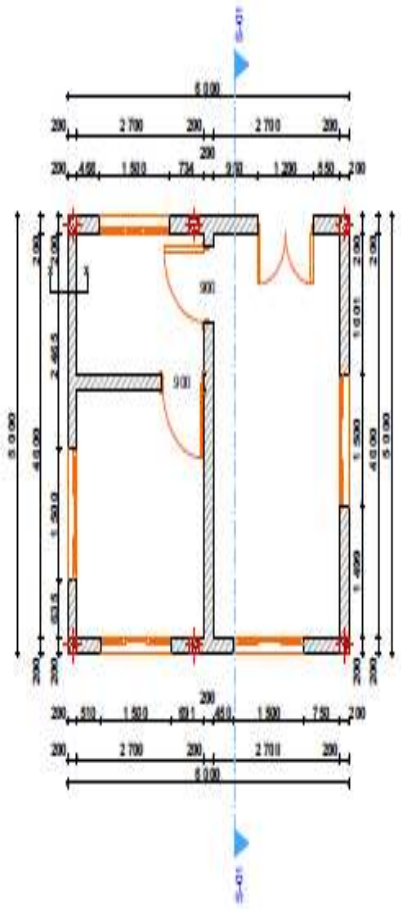
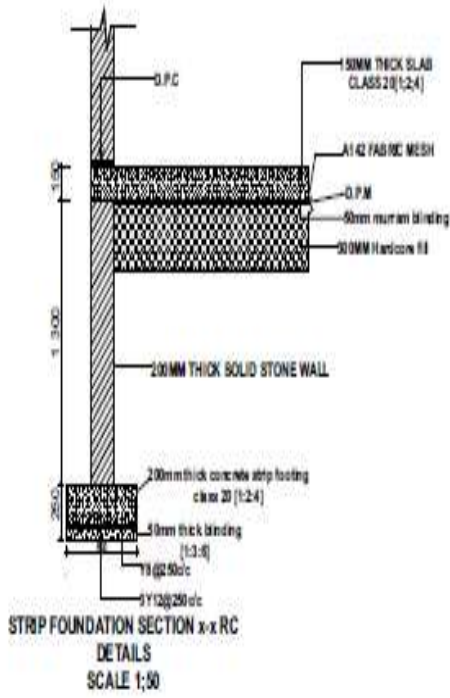
QUESTION FOUR (20 Marks)


Take off quantities for roof works and rainwater goods as per attached drawing No 001

QUESTION FIVE (20 Marks)

- i. Take off quantities for the internal wall, floor and ceiling finishes as per the drawing No 001 (15 Marks)*
- ii. State the standard units of measurements of the following (5 Marks)*
 - a) Concrete in foundation*
 - b) Walling*
 - c) Floor Tiling*
 - d) Windows*

NOTE: PRINT NEXT PAGE ON A3 PAPER



 Company name	
Name City State/County Postal Code	#Project Name
Job Title #Drawing Name	#Project Status
Drawing Name #Drawing Name	#Project Status
Date by #CAD Technician	Date
Checked by #Architect Name	Date
Drawing Scale 1:500	#Project Status
Page 01 #LayID	Date Revision