



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF ENGINEERING AND TECHNOLOGY

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

2ND YEAR 2ND SEMESTER 2017/2018 ACADEMIC YEAR

CENTRE: MAIN CAMPUS

COURSE CODE: TBC 2226

COURSE TITLE: BUILDING TECHNOLOGY II

EXAM VENUE: LAB 23

STREAM: DIP IN BLD & CIV ENG

DATE: 21/12/2017

EXAM SESSION: 2.00 – 3.30PM

DURATION: 1 ½ 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**

1. a) Define the following terms as applied to roofs
 - i) Ridge
 - ii) Common rafters
 - iii) Wall plate
 - iv) Purlins (4 marks)
- b) Sketch and label the details of lean – to roof (7 marks)
- c) Sketch and dimension a standard plain roofing tile (7 marks)
- d) Sketch the part of a cross section through a standard paneled door showing weather boards. (7 marks)
- e) Sketch and label the elevation of ledged battened door. (7 marks)
- f) out line any four ways of drain testing (8 marks)
2. a) Explain approved document F for ventilating a dwelling house. (10 marks)
- b) Sketch the vertical cross section through timber casement window (5 marks)
3. a) Sketch timber brackets fixed to wall. (5 marks)
- b) Describe the following terms.
 - i) Skirting
 - ii) Architraves
 - iii) Dado rails
 - v) Cornices
 - vi) Picture rails. (10 marks)
4. a) Define the following terms as used in cold water supply
 - i) Main
 - ii) Service
 - iii) Service pipe
 - iV) Communication pipe
 - v) Cistern (5 marks)
- b) With the aid of sketches differentiate between direct cold water supply and indirect cold water supply. (10 marks)
5. a) Sketch and label a cold water storage cistern (7 marks)
- b) List any two faults in hot water system (4 marks)
- c) Sketch a pressed steel bracket (4 marks)