



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2019/2020

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF

BACHELOR OF SCIENCE IN CONSTRUCTION MANAGEMENT

BCM 211: WORKSHOP TECHNOLOGY

DATE: Monday, 16th December 2019

TIME: 2.00 p.m. - 4.00 p.m.

INSTRUCTIONS:

Question No. 1 is compulsory and answer any other TWO questions from the other four.

Question One

- a) Sketch at least TEN wood joints. (20 marks)
- b) Aggregates may be classified according to shape, name at least SIX classifications. (6 marks)
- c) State the FOUR types of slump test carried out on fresh concrete. (4 marks)

Question Two

- a) Define the following as used in brick/stone walling. (4 marks)
 - i. Mortar
 - ii. Rendering
- b) State the maximum height of 225mm brick to be laid per day and give the reasons for the requirements. (4 marks)
- c) Explain the meaning the term slump test as used in concrete work. (2 marks)
- d) With aid of sketches illustrate the FOUR commonly used Bonds in masonry brick walls. (10 marks)

Question Three

- a) With aid of labeled sketches explain the following methods of timber seasoning.
 - b) Kiln seasoning
 - c) Air seasoning
- (10 marks)

- d) With aid of sketches illustrate the FOUR common timber defects that may occur during seasoning of the timber. (10 marks)

Question Four

- a) Briefly explain FOUR commonly used methods of timber preservation. (10 marks)
b) Briefly describe the term seasoning of timber. (4 marks)
c) Outline the SIX general requirements for equipment maintenance in the workshops. (6 marks)

Question Five

- a) State the FIVE methods used in timber stacking. (5 marks)
b) Briefly explain at least FIVE reasons for seasoning of timber. (5 marks)
c) Sketch at least FOUR block laying and SIX wood working tools. (10 marks)