



MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

MAIN EXAM

2021/2022 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL HEALTH

COURSE CODE: HEH 222

COURSE TITLE: BUILDING CONSTRUCTION AND TECHNOLOGY

DATE: 19/04/2022

TIME: 3.00-5.00 PM

INSTRUCTIONS TO CANDIDATES:

SECTION: *Answer all the questions in section A and any 2 in section B*

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

SAQ1. Define the following terms as applied in Building industry. (5 marks)

- i. Building construction (2½ marks)
- ii. Plastic Materials (Plastics) (2½ marks)

SAQ2 State five components of a building (5 marks)

SAQ3. (a).State the differences between rising dampness and penetrating dampness. (3marks)

(b).Explain the public health significance of damp proofing in a residential building.
(2marks).

SAQ4.State two reasons for the disapproval of plans of buildings. (5marks)

SAQ5.Explain the duties of a Quantity surveyor in the building industry. (5marks)

SAQ6.State five site requirements that must be provided before the commencement of construction of a building. (5 Marks)

SECTION B: LONG ANSWER QUESTIONS (LAQs) 40 MARKS.

GENERAL INSTRUCTIONS

- i. There are three (3) questions in this section.
- ii. Answer any two of the three questions.
- iii. All questions carry equal marks.

LAQ1.Discuss the factors to be considered when choosing a site for the construction of a building giving practical examples. (20 marks)

LAQ2.Discuss briefly the following components of a building. (20 marks)

- i. Foundations (7 marks)
- ii. Floors (7 marks)
- iii. Walls (6 marks)

LAQ3. Discuss the following types of seasoning of timber: (20 marks)

- i. Air Seasoning. (10marks)
- ii. Kiln Seasoning. (10marks)