

**W1-2-60-1-6**

## JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

**UNIVERSITY EXAMINATIONS 2020/2021**

**YEAR 3 SEMESTER 2 EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN PUBLIC HEALTH**

**IPH 2314: BUILDING CONSTRUCTION AND TECHNOLOGY**

**DATE: APRIL 2021 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER ONE QUESTION**

**QUESTION ONE (48 MARKS)**

a) Discuss four responsibilities of a clerk of works in a building site (6 marks)

b) Describe six roles of Kenya Bureau of Standards in the construction of buildings

(6 marks)

c) Explain the purpose of site investigation (6 marks)

d) Describe four general requirements of formwork (6 marks)

e) Describe six functions of hardcore in any building (6 marks)

f) Explain the parties (building team) involved in the construction of buildings and give at least one role for each (6 marks)

g) State functions of ground floors (6 marks)

h) State suitable materials for damp-proof course (6 marks)

**QUESTION TWO (22 MARKS)**

a) Describe factors to consider when selecting floor finishes (10 marks)

b) With the aid of neat sketches describe methods used in setting out buildings (12 marks)

**QUESTION THREE (22 MARKS)**

a) Describe the functions of foundations of buildings (12 marks)

b) Discuss the purpose of soil investigation (10 marks)

**QUESTION FOUR (22 MARKS)**

a) A health facility is proposed to be built by the County of Homa Bay. Discuss three methods of tendering that can be used by the County Government when selecting contractors (10 marks)

b) Explain six functions of building codes as used in the construction of buildings

(12 marks)