SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ARCHITECTURE & BUILT ENVIRONMENT UNIVERSITY EXAMINATION FOR:

BACHELOR OF ARCHITECTURAL STUDIES/BACHELOR OF ARCHITECTURE

EAR 4109: BUILDING TECHNOLOGY I

END OF SEMESTER EXAMINATION

YEAR ONE SEMESTER II

SERIES: APRIL 2022

TIME: 2 HOURS

DATE:Pick DateApril 2022

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

QUESTION ONE (30 MARKS-COMPULSORY)

Describe SIX processes you would consider on desk study when selecting a site.

(30 marks)

QUESTION TWO (20 MARKS)

- (a) Define the terms Damp Proof Cause (dpc) and Damp Proof Membrane (dpm). (6 marks)
- (b) Explain the function of each of them in the building substructure using load bearing walls. (8marks)
- (c) Explain how the introduction of cement impacted Architecture in the Imperial Roman Empire. (6 marks)

QUESTION THREE (20 MARKS)

An Environmental expert is commissioned to work on a project in Mombasa town. What processes is he/she required to perform? (20 mark)

QUESTION FOUR (20 MARKS)

- (a) Define the term Concrete in building construction. (4 marks)
- (b) Explain any FOUR foundation types. (16 marks)

QUESTION FIVE (20 MARKS)

- (a) Define the term Building Site and when does the Site become a construction site. (5 marks)
- (b) In a construction site how key is levelling the site. (15 marks)