



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE**  
**PUBLIC HEALTH/COMMUNITY HEALTH AND DEVELOPMENT**  
**3<sup>rd</sup> YEAR 1<sup>ST</sup> SEMESTER 2017/2018 ACADEMIC YEAR**  
**KISUMU CAMPUS**

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**COURSE CODE: HPD 3222**

**COURSE TITLE: BUILDING CONSTRUCTION & TECHNOLOGY**

**EXAM VENUE: STREAM: BSC PUBLIC/COMM.HLTH&DEV.**

**DATE: EXAM SESSION:**

**TIME: 2.00 HOURS**

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**Instructions:**

- 1. Answer all the questions in Section A and 2 questions in Section B.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

## **SECTION A**

1. Define the following terms
  - a. lintel (1marks)
  - b. beam (1marks)
  - c. mortar (1marks)
  - d. foundation (1marks)
2. State the following building materials
  - a. Cement (2mark)
  - b. Sand (2marks)
  - c. aggregates (2mark)
3. List four properties of good sand (4marks)
4. List three advantages of using stones in constructions (3marks)
5. List two disadvantages of using stones on constructions (2marks)
6. List 3 roofing materials (3marks)
7. State two advantages of using bricks in a construction (3marks)
8. State two disadvantages of using bricks in the construction (3marks)
9. State the difference between a joint and a bed during construction work (2marks)

## **SECTION B**

1. 'Cement is the most important building material in the construction industry'. Explain this statement including the components of cement. (20marks)
2. Explain the steps involved in the construction of a permanent residential house from the start to the final finish (20 marks)
3. Describe sand as a major building material (20 marks)
4. Describe a damp proof course (DPC), stating its purpose in a building and where it is applied (20 marks)