



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

**UNIVERSITY EXAMINATION FOR:**

DEGREE

EAR 4102 : HISTORY AND THEORY OF ARCHITECTURE I  
EXAMINATION

**SERIES: DECEMBER 2016**

**TIME: 2 HOURS**

**DATE:** Pick Date Sep 2017

## Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

- Pocket calculator

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions. Question one carries 30 marks and the rest carries equal marks (20marks)

**Do not write on the question paper.**

**Mobile phones are not allowed in the examination room.**

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## Question ONE

- Compare the similarities between the Omani courtyard house and the Lamu stone house with specific references to the issues of privacy and thermal comfort (you should use drawings of the floor plans and section where necessary). **(20 marks)**

## Question TWO

- In the development of architecture from the times of ancient Egyptian and Greek eras the issue of materials used and knowledge of post and lintel structural systems determined the kind of buildings built. What was the impact of the knowledge of the use of arch, dome vault and the use of concrete as a building materials? (Cite a few buildings to qualify your argument). **(20marks)**

### Question THREE

- a. Name the factors that have contributed to the setting up of homesteads in the rural east Africa. **(10 marks)**
- b. Explain how these factors have determined the setting up of the Maasai homestead. **(10 marks)**

### Question FOUR

- a. What characterizes renaissance architecture? **(8marks)**
- b. Give two example of the most famous renaissance buildings? **(6marks)**
- c. Which architectural piece is credited to the foretime architect and artist fillip Brunelleschi (1377-1446) **(6marks)**

### Question FIVE

- a. What principle of town planning originating from the ancient Greek era has influenced planners in the recent past particular in American city plans? **(10 marks)**
- b. Explain why massive walls and small windows characterize housing designs in hot and dry climates like in the Arab world. **(10marks)**