



TECHNICAL UNIVERSITY OF MOMBASA

SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ARCHITECTURE & BUILT ENVIRONMENT

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN ARCHITECTURE

EAR 2107: HISTORY & THEORY OF ARCHITECTURE II

SPECIAL AND SUPPLEMENTARY EXAMINATION

YEAR ONE SEMESTER II

SERIES: JULY 2024

TIME: 2 HOURS

DATE: JULY 2024

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.

No mobile phones or smart watches are allowed in the examination room

QUESTION ONE (30 MARKS)-COMPULSORY

- a) The Industrial Revolution brought significant advancements in construction technology that transformed modern architecture. Discuss how these developments influenced architectural design and construction. (10 marks)
- b) Compare and contrast Romanesque and Gothic architecture. (10 marks)
- c) Unlike the Greeks who were primarily influenced by religious devotion, early Romans focused on engineering and infrastructure to advance their cities. Highlight ways this factor influenced their architecture. (10 marks)

QUESTION TWO (15 MARKS)

- a) Discuss the historical developments that led to the emergence of Byzantine architecture. (5 marks)
- b) Byzantine architecture evolved from Roman traditions but introduced unique innovations. Discuss FIVE key characteristics of Byzantine architecture. (10 marks)

QUESTION THREE (15 MARKS)

Organic architecture is a movement in architecture that emerged in the early 20th century and continues to influence design today. Explain FIVE key points about organic architecture.

QUESTION FOUR (15 MARKS)

- a) Explain how the discovery of Pozzolan concrete revolutionized ancient Roman architecture (5 marks)
- b) Roman temples were heavily influenced by Greek architecture but introduced unique elements. Highlight FIVE key differences between Roman and Greek temple architecture. (10 marks)

QUESTION FIVE (15 MARKS)

- a) Name FIVE buildings designed by the pioneers of modernism that symbolize modern architecture. (5marks)
- b) Discuss FIVE common themes of modern architecture and how they define contemporary building design. (10 marks)