

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF THE BUILT ENVIRONMENT
DEPARTMENT OF ARCHITECTURE
BACHELOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE
2010-11 ACADEMIC YEAR
PART I - FIRST SEMESTER EXAMINATIONS – JANUARY 2011
AAR 1103 – HISTORY OF ARCHITECTURE I

Instructions

Duration: 3 Hours

Answer **Question 1** and any three other questions.

Each question carries 25% of the marks.

Illustrate your answers clearly and legibly with sketches where appropriate

Number all your sheets.

QUESTION 1

1. (a) What is the importance of having a knowledge of architectural history to an architect?
Explain with examples [10]
- (b) Briefly explain with sketches, the following architectural terms or historical buildings:
(i) Sphinx (ii) Hieroglyphics (iii) Agora (iv) Entasis (v) Triumphal Arch [15]

QUESTION 2

Some of the most important early developments in the history of architecture were the emergence in Mesopotamia and Egypt respectively of monumental architecture in brick and stone. With the aid of clear legible and well annotated sketches, briefly describe and explain when, where, why these happened. Give examples of their early manifestations in public and religious buildings. [25]

QUESTION 3

Describe any five of these architectural sites:

- | | | | |
|-----------------|---------------|-------------------|----------------|
| (i) Aachen | (ii) Alhambra | (iii) Catal Huyuk | (iv) Cologne |
| (v) Cordoba | (vi) Durham | (vii) Epidaurus | (viii) Jericho |
| (ix) Knossos | (x) Miletus | (xi) Mycenae | (xii) Ostia |
| (xiii) Pergamon | (xiv) Rouen | (xv) Stonehenge | [25] |

QUESTION 4

What are the classical orders of architecture? Cite and sketch three buildings in which each of these orders are used. [25]

QUESTION 4

Ancient Roman Architecture featured several engineering innovations. Using sketches and illustrations, describe any five of these. [25]

QUESTION 5

What spatial qualities did the Gothic cathedrals of the 12th century aspire to have, and how did they solve structural problems in order to achieve these qualities? [25]

QUESTION 6

How were the technical advances of the Industrial Revolution reflected in the architecture of that time? [25]