



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF ENGINEERING AND TECHNOLOGY

**UNIVERSITY EXAMINATIONS FOR THE DEGREE IN SCIENCE IN CONSTRUCTION
MANAGEMENT**

1ST YEAR 1ST SEMESTER 2018/2019 ACADEMIC YEAR

CENTRE: MAIN CAMPUS

COURSE CODE: TCM 3112

COURSE TITLE: HISTORY OF CONSTRUCTION

EXAM VENUE: STREAM: BSc CONSTRUCTION MGT

DATE: ../12/2018 EXAM SESSION:

DURATION: ... HOURS

Instructions

- 1. Answer question 1 (Compulsory) and ANY other two questions**
- 2. Candidates are advised not to write on question paper**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**

QUESTION ONE (30MARKS)

- a. Define the following terminologies associated with the historical development of the construction industry **(10marks)**.
 - i. Skyscraper
 - ii. Ziggurat
 - iii. Project
 - iv. Tar roads
 - v. Aqueducts
- b. Discuss construction labour guild system beginning from early 12th century **(8marks)**.
- c. Name pioneer classical theorists and what management ideals they stood for **(6marks)**.
- d. Discuss key issues that have historically shaped the evolution of the bridge system **(6marks)**.

QUESTION TWO (20MARKS)

- a. Briefly define the following terms applied as styles in ancient architecture **(4marks)**.
 - i) Baroque
 - ii) Rococo
- b. Briefly discuss the features of architectural styles mentioned in question (a) above **(12marks)**.
- c. Under each of the above architectural styles state two celebrated architects **(4marks)**.

QUESTION THREE (20MARKS)

- a. Briefly explain the scientific invention that led to evolution of the early road? **(4marks)**.
- b. Discuss the origin of the turnpike roads? **(8marks)**.

- c. The Romans are historically known for their prowess in road construction. Discuss the major features of the first Roman road **(8marks)**.

QUESTION FOUR **(20MARKS)**

The discovery of cement as a construction material revolutionized the construction industry.

- a. Discuss the historical development of cement as a construction material **(10marks)**.
- b. Highlight the significant contribution of the invention of cement to the construction industry at large **(10marks)**.

QUESTION FIVE **(20MARKS)**

Discuss the learning lessons from the ancient City of Manitoba towards the development of the construction industry today.