



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF ENGINEERING AND TECHNOLOGY
UNIVERSITY EXAMINATIONS FOR THE DEGREE OF SCIENCE IN:
BUILDING CONSTRUCTION AND MANAGEMENT
1ST YEAR 1ST SEMESTER 2015/2016 ACADEMIC YEAR
CENTRE: MAIN CAMPUS

COURSE CODE: TCM 3112

COURSE TITLE: HISTORY OF CONSTRUCTION

EXAM VENUE: CR

STREAM: BSc IN CONSTRUCTION

DATE: 21/4/16

EXAM SESSION: 9.00 – 11.00 AM

TIME: 2 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 terms commonly applied in the construction sector;
 - i) Management (2marks).
 - ii) Project (2marks).
 - iii) Construction (2marks).
 - iv) Skyscraper (2marks).
 - v) Cable stayed bridge (2marks).
- b) Briefly discuss the historical development of management as a profession (10marks).
- c) Renaissance construction period is traditionally considered as between 15th and 17th centuries in different regions of Europe. Highlight the major construction breakthrough in this era (10marks).

QUESTION TWO (20marks)

Discuss the major historical contribution of the Romans to the development of the construction industry citing major materials and technological innovations in the Neolithic period (20marks).

QUESTION THREE (20marks)

Bridge construction technology has evolved over a considerable period of time commencing from pre-historic time.

- a) Describe the first bridge constructed by man in pre-historic era (4marks).
- b) Discuss four main types of bridges that evolved in the contemporary era citing an example in each case (16marks).

QUESTION FOUR (20marks)

- a) Discuss the role of trade union movements in the construction industry today (6marks).
- b) Trace the historical origin of the guild system in construction labour (14marks).

QUESTION FIVE (20marks)

The ancient City of Manitoba was known for the development of various construction materials and techniques.

- a) Discuss the early shelters of the Aborigines, the original inhabitants of the city (10marks).
- b) The log and framed timber construction techniques were influenced by the European shelter community at a later stage. Compare and contrast these two techniques of construction (10marks).