

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF ENGINEERING AND TECHNOLOGY

UNIVERSITY EXAMINATIONS FOR THE DEGREE IN CONSTRUCTION MANAGENT

4TH YEAR 1ST SEMESTER 2018/2019 ACADEMIC YEAR

CENTRE: MAIN CAMPUS

.....

COURSE CODE: TCM 3413

COURSE TITLE: MAINTENANCE AND REHABILITATION

EXAM VENUE: STREAM: BSc CONSTRUCTION MGT.

DATE: ../12/2018 **EXAM SESSION:**

DURATION: 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. Differentiate between destructive and non-destructive tests giving two examples of destructive	
tests.	(4 Marks)
b. Discuss the objectives of maintenance of structures	(6Marks)
o. Discuss the objectives of maintenance of structures	(Olvidiks)
c. Differentiate the following terms	(8 Marks)
i. Maintenance	
ii. Repair	
iii. Rehabilitation	
iv. Restoration	
d. Discuss the four types/classification of concrete repair	(6Marks)
e. Discuss any four Non Destructive test methods	(6 Marks)
	,
QUESTION TWO (20Marks)	
a. Discuss the various aspects of a structure that will be inspected in order to	
	(10Marks)
b. Define and Distinguish shotcreting and jacketing	(4 Marks)
c. List and discuss any four causes of deterioration in concrete	(6Marks)
QUESTION THREE (20Marks)	
a. List and discuss six techniques of concrete repair	(12 Marks)
	()
b. Cracks are classified into two types, discuss	(2 Marks)
c. Differentiate between cracking and spalling	(2Marks)
d. List the stages of concrete repair process	(4Marks)
d. List the stages of concrete repair process	(4Marks)
QUESTION FOUR (20Marks)	
a. Define the following:	
I. Tenancy agreement	
II. estate management	
III. Restrictive Covenant	(6Marks)
b. Property management is the control and organization of property life cycle	e. From this definition
discus the function/activities of a property Manager	(14 Marks)
OHECTION ENVE (20M-J-)	
QUESTION FIVE (20Marks) a. Define the term cost-in use	(2 Marka)
	(2 Marks)
b. List and discuss briefly the various categories of building related costs	(1/Montra)
a Discuss the history of cotate management	(14Marks)
c. Discuss the history of estate management	(4Marks)