

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering &

Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

UNIVERSITY EXAMINATION FOR DECREE IN:

BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BSCE)

ECE 2511: CIVIL ENGINEERING PRACTICE

END OF SEMESTER EXAMINATION SERIES: APRIL 2015 TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

Answer Booklet -

Pocket Calculator

This paper consists of **FIVE** questions. Answer question **ONE** (**COMPULSORY**) and any other **TWO** questions Maximum marks for each part of a question are as shown Use neat, large and well labeled diagrams where required This paper consists of **TWO** printed pages

Question One (Compulsory)

- a) State any SIX rules of the following essential elements of a valid simple contract:
 - (i) Offer
 - (ii) Acceptance
 - (iii) Consideration
- b) For each of the following vitiating factors to a simple contract, give ONE example and stat the effect each would have on the validity of the contract:
 - (i) Mistake as to the existence of the subject matter
 - (ii) Misrepresentation
 - (iii) Duress
 - (iv) Undue influence

© 2015 -Technical University of Mombasa

c) State any FOUR contract documents used in Civil Engineering contracts and give the purpose of each (6 marks)

d) (i) Define a bond

(5 marks)

(9 marks)

Question Two

a)	Define the following terms:(i) Claim and state its causes(ii) Arbitration and state any FOUR advantages and disadvantages of Arbitration and state any FOUR advantages and disadvantages of Arbitration and state any FOUR advantages and disadvantages of Arbitration and state any FOUR advantages and disadvantages of Arbitration and state any FOUR advantages and disadvantages of Arbitration and state any FOUR advantages and disadvantages of Arbitration advantages and disadvantages and disadvantages of Arbitration advantages and disadvantages and disadvantages and disadvantages advantages advantages advantages advantages and disadvantages advantages adva	respectively (14 marks)	
b)	Describe the procedure of appointment of a sole Arbitrator by Agreement	(6 marks)	
Qu	Question Three		
a)	 Explain the following types of contracts and state ONE, application, advantage and each respectively. (i) Bill of Quantities contract (ii) Lump sum contract (iii) Cost plus fixed fee contract (iv)Cost plus variable fee contract 	l disadvantage of (14 marks)	
b)	Explain any FOUR remedies available for breach of contract	(6 marks)	
Qu	lestion Four		
a)	Explain briefly the differences between the Bills of Quantities for Civil Engineeri Works respectively	ing and Building (6 marks)	
b)	 Explain the following terms as used in Civil Engineering contracts: (i) Provisional sum (ii) Prime cost sum (iii) Daywork and daywork schedule (iv) Interim payment certificate 	(14 marks)	
Qu	Question Five		
a)	Outline the functions of specifications in Civil Engineering contracts	(5 marks)	
b)	 Write brief specifications for the following civil engineering materials: (i) Cement (ii) Coarse Aggregates (iii) Fine Aggregates marks) 	(15	