



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

DIPLOMA IN BUILDING AND CIVIL ENGINEERING

EBC 2301: CONSTRUCTION MANAGEMENT

END OF SEMESTER EXAMINATION

SERIES: APRIL 2016

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination

- Answer booklet
- Calculator

This paper consists of **FIVE** questions

Answer any other **THREE** questions

Use neat, large and well labelled diagrams where required

Maximum marks for each part of a question are as shown

This paper consists of **THREE** printed papers.



QUESTION 1.

- (a) Briefly explain the term “SCOPE OF CONSTRUCTION WORK” as used in most of the Construction projects **(5 marks)**
- (b) Describe FIVE conditions under which negotiated method of tendering may be deemed suitable for tendering certain construction projects. **(10 marks)**
- (c) Outline FIVE ways in which contractors list may be drawn up in selective method of tendering for a building project. **(5 marks)**

QUESTION 2.

- (a) The roles of a quantity surveyor range from the inception of the client’s idea, to the construction period and to the completion of the project (inception, conception & completion of the project). Highlight SIX roles in each case. **(9 marks)**
- (b) Using a well labeled organizational chart, describe the various relationships that exist in any construction firm. **(6 marks)**
- (c) HOWO ventures has won a tender for the construction of a lecture hall in T.U.M, advice the managing director the FIVE documents he is supposed to sign with T.U.M before the establishment of the contract showing the role of each. **(5 marks)**

QUESTION 3.

- (a) Distinguish the following as used in the construction industry:-
- i. (i) Authority and power
 - ii. (ii) Accountability and responsibility
 - iii. (iii) Chain of command and span of control
 - iv. (iv) Division of labour and specialization **(8 marks)**
- (b) Access to site and traffic is a big challenge in most construction sites, Highlight FOUR ways in which this problem can be solved during the construction period. **(4 marks)**
- (c) Briefly explain FOUR programming methods used in scheduling construction activities in any construction project. **(8 marks)**



QUESTION 4.

- (a) Highlight FIVE importance's of discipline in any construction site **(5 marks)**
- (b) Highlight any TEN general rules and principles followed when disciplining any one in any construction site. **(5 marks)**
- (c) EPCO BUILDERS is a class A construction company with NCA 1 listing, it happens to have twelve projects in various parts of the country, with four project leaders each having three projects. Draw, name and explain the best organizational chart that suits the company. **(10 marks)**

QUESTION 5.

- (a) Describe the THREE stages involved in the construction contract planning of any building project giving FOUR reasons in each stage. **(12 marks)**
- (b) Purchasing a construction plant is far much cheaper than hiring it? If yes, give SIX distinct reasons as to why one would do so. **(6 marks)**
- (c) State FOUR factors influencing the span of control of any construction firm **(2 marks)**

