



MACHAKOS UNIVERSITY

University Examination 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

THIRD YEAR SECOND SEMESTER EXAMINATION FOR

DIPLOMA IN CIVIL ENGINEERING

BCECD 314: CONSTRUCTION MANAGEMENT

DATE: 7/5/2019

TIME: 8:30 – 10:30 AM

Instructions to candidates

Answer Question one and any other two questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a)
 - i) Define the term management. (2 marks)
 - ii) Name and briefly explain three levels of management. (9 marks)
- b)
 - i) Mention three planning stages involved in the construction process. (3 marks)
 - ii) Define the term tendering and briefly explain any three methods of tendering. (8 marks)
- c) Draw an organization chart of a medium sized construction firm (8 marks)

QUESTION TWO (20 MARKS)

- a) Briefly explain four functions of management. (12 marks)
- b) Explain the following principles of organizational structure:
 - Division of labour
 - Unity of command
 - Espirit de corps
 - order. (8 marks)

QUESTION THREE (20 MARKS)

- a) Outline the importance /purpose of a site visit when preparing an estimate for a tender. (5 marks)
- b) List down five kinds of information that should be gathered when on a site visit stating the effect of each type on the bid. (15 marks)

QUESTION FOUR (20MKS)

- a) Outline the duties of each of the following I a pre-tender meeting;
-General manager
-Chief estimator
-Contracts manager
-Buyer
-Planning engineer. (10 marks)
- b) Table 1 shows the activity, duration and number of operatives required for a project. Determine the project duration by means of a network diagram and indicate the critical path. (10 marks)

Table 1

Activity	Duration(in weeks)	No.of Operatives (per week)
1-2	4	4
1-3	3	6
1-4	6	5
2-7	7	6
2-5	0	0
3-5	5	4
4-5	4	3
4-6	2	2
5-7	5	7
6-7	3	4

QUESTION FIVE (20 MARKS)

- a) Distinguish between power and authority citing two examples for each case. (6 marks)
- b) i) Define the term motivation.
ii) Using a suitable diagram, explain A H Maslow's hierarchy of human needs. (14 marks)