



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:

TIME:

Instructions to candidates

This paper comprises five questions

Question one is compulsory and carries 30marks

Attempt any other two questions

Marks for each question are as shown

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
 - Esprit 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)