



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL/ELECTRONICS ENGINEERING AND CIVIL ENGINEERING

ECV 413: CONSTRUCTION MANAGEMENT

DATE: FRIDAY, 20TH APRIL 2012

TIME: 8.00 A.M- 10.00 A.M

INSTRUCTIONS:

- 1) Question One is Mandatory
- 2) Answer any other two questions

QUESTION ONE

- i) Describe the construction Industry in Kenya, indicate and explain these typical sectors in civil engineering/ construction projects. (6 marks)
- ii) Define both terms construction and management. (2 marks)
- iii) Describe management process in details. Explain construction management, prerequisites for effective construction management. (6 marks)
- iv) What are the topics covered by construction and project cost management system? (6 marks)
- v) The functions and features of the system includes such activities as.... (6 marks)
- vi) What are individual responsibilities for client, consultants, project manager and contractor ? (6 marks)
- vii) What are characteristics of a project? (4 marks)

- viii) What effective cost management require? (2 marks)
- ix) How does system facilitate monitoring? (2 marks) (40 marks)

QUESTION TWO

- i) Name all types of contracts in construction industry and explain. (8 marks)
- ii) What are damages, defects, initial contract price in construction contract? (3 marks)
- iii) What are phases of project management? (4 marks)
- iv) Indicate responsibilities of, project manger, resident architect/engineer, quantity surveyor, estimator, job clerk (5 marks)

QUESTION THREE

- I) Explain in detail what is a prime cost item in a bill of quantity. (2 marks)
- II) Explain in detail what is a provisional sum in a bill of quantity. (2 marks)
- III) Project manager practices project management, what are these project activities? (5 marks)
- IV) Tender is offered to the client by contractor. Explain. (1 marks)
- V) Describe the following tender documents , bill of quantities, general terms and conditions of contract, specification documents, tender working drawings . (10 marks)

QUESTION FOUR

- I) Project Manager is supposed to have skills and Knowledge for management of human and non human resources on site. Explain in details (5 marks)
- II) How is project organization done on site, explaining responsibilities of key players? (5 marks)

- III) Define tender and conditions of contract and providing characteristics of a tender notice. (5 marks)

QUESTION FIVE

- i) Time is now fully recognized as available resource in building and civil engineering contract, it plays a very vital role in contract, explain each of these aspects. (6 marks)
- ii) Discuss functional requirements of monitoring and control systems. (7 marks)
- iii) At the commencement of work state the activities to be completed by both project owner and contractor (7 marks)