



# MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)

University Examinations 2015/2016

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

SECOND SEMESTER EXAMINATION FOR CERTIFICATE IN BUILDING

CONSTRUCTION TECHNOLOGY

**BCE.BT:205: ENTREPRENEURSHIP 111**

**Date: 20/4/2016**

**Time: 2.00-4.00 PM**

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## **INSTRUCTIONS**

*This paper consists of FIVE questions*

*Answer question one and other two questions in this paper*

1. (a) i) State five traits of creativity and innovation that an entrepreneur should have. (5 marks)  
ii) State five characteristics of a successful entrepreneur (5 marks)
- b) i) Name and explain two factors that influence decision making (4 marks)  
ii) State and explain three incentives that the government has introduced for aspiring entrepreneur so that they can have interest in starting a business. (6 marks)
- c) i) Name and explain five basic financial business records. (5 marks)  
ii) Explain five types of documents used in a site as a means of communication. (5 marks)
2. a) i) Explain three ways of self assessment that an entrepreneur can use to test his strength and weakness. (6 marks)  
ii) Explain the following characteristics of an entrepreneur.
  - i. Risk taker
  - ii. Future oriented
  - iii. Action Oriented (6 marks)
- b) Explain the following statement in relation to coping with change

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*Examination Irregularity is punishable by expulsion*

- i. Evaluating the change and competition.
    - ii. Anticipating change and competition. (4 marks)
  - c) Explain the following characteristics of setting business objects
    - i. Measurable
    - ii. Realistic (4 marks)
- 3.
  - a)
    - i) Explain five stages involved in decision making (5 marks)
    - ii) State the considerations in risk taking. (3 marks)
  - b) Explain the following activities and how they affect the business.
    - i. Common time wastage activities
    - ii. Better management of time. (8 marks)
  - c) State four qualifications of a good leader in a business setup. (4 marks)
- 4.
  - a) Explain how an entrepreneur can be able to cope with change and competition. (10 marks)
  - b) Explain how the following statement affects the leadership of an entrepreneur
    - i. Acceptance to constructive Criticism
    - ii. Courage
    - iii. Ability to exploit situations. (6 marks)
  - c) State four factors considered in the process of managing a well organized human resources team. (4 marks)
- 5.
  - a) Explain the meaning of staff development in relation to workers in a building site. (4 marks)
  - b) State and explain the following as applied in financial records.
    - i. Cash flow statement
    - ii. Trial balance
    - iii. Balance sheet
    - iv. Record of purchase and sales. (8 marks)
  - c) State and explain four resources requirements needed by an entrepreneur before starting a business. (8 marks)



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SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

FIRST SEMESTER EXAMINATION FOR CERTIFICATE IN BUILDING

CONSTRUCTION TECHNOLOGY

**BCE.BT:113: CONSTRUCTION MANAGEMENT II**

**Date: 20/4/2016**

**Time: 8.30-10.30 AM**

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## **INSTRUCTIONS**

*This paper consists of FIVE questions*

*Answer question one and other two questions in this paper*

1.
  - a)
    - i) List the three main reasons for introducing equipments and machines in a building site. (3 marks)
    - ii) State five advantages of buying plant and five advantages of hiring the same. (5 marks)
  - b)
    - i) State and explain two methods used In the maintenance of tool equipments and machines. (6 marks)
    - ii) Name and explain four types of plants that are used in a building site. (8 marks)
  - c)
    - i) Explain the main purposes of preliminary items in a building site (4 marks)
    - ii) States and explain three methods that are used to enhance safety in the operation of equipments during the maintenance operation. (6 marks)
2.
  - a)
    - i) State four conditions that must be taken care of in a building site when preparing the bills of quantities. (8 marks)

- ii) Name and explain two classifications of maintenance of tools and equipments. (6 marks)
- b) Name and explain three preliminary items for the works in a building site. (6 marks)
3. a) i) State the purposes of material transportation equipment in a site and name at least five of them. (5 marks)
- ii) Name five tools and equipments that are commonly used in a construction site. (5 marks)
- b) i) Explain the term preliminary items (3 marks)
- ii) Name and Explain three preliminary items in administration and accommodation. (3 marks)
- c) Explain two methods of acquiring plants and equipments in a construction site.
4. a) Explain the two major causes of idle time in a building site. (2 marks)
- b) State and Explain three factors considered when deciding on the type of plants to acquire (6 marks)
- c) i) Name and explain three regulations regarding preliminary items. (6 marks)
- ii) Name three site services that are mandatory in a building site. (6 marks)
5. a) A contractor wishing to erect temporary structures in a building site must seek written approval from the local authority. Explain why the contractor should work in consultation with the local authority. (6 marks)
- b) Explain the purpose of the following groups of preliminary items.
- i. Safety
- ii. Health
- iii. Communication (9 marks)
- c) Explain five areas that should be covered by insurance in building site towards the safety of workers and property. (5 marks)



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DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

SECOND SEMESTER EXAMINATION FOR CERTIFICATE IN BUILDING

CONSTRUCTION TECHNOLOGY

**BCE.BT:212: CONSTRUCTION MANAGEMENT IV**

**Date: 20/4/2016**

**Time: 8.30-10.30 AM**

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## **INSTRUCTIONS**

*This paper consists of FIVE questions*

*Answer question one and other two questions in this paper*

1. a) Explain the term quotations as refers to bills of quantities (3 marks)
  - b) i) Draw a work schedule for construction of a sample two roomed house to be constructed in 30 days from foundation to roof naming all the activities. (10 marks)
  - ii) Explain the meaning of site clearance in a building site. (3 marks)
  - c) i) Draw a bar chart of the activities of the plants in a building site during clearance of a site measuring one acre and sloping to one side. (10 marks)
  - ii) Name four sub-contractors who are engaged in a building site by the main contractor. (4 marks)
2. a) Explain the works of the following equipments and machines used in a building site.
    - i. Bulldozer
    - ii. Dumper
    - iii. Back actor. (15 marks)
  - b) Explain how a contractor gets sub contractors in a building site. (5 marks)

3. a) Draw a site plan showing all the amenities, constructions and pit latrines in the compound. (10 marks)
- b i) Define the term trade Unions. (2 marks)
- ii) Name two courses of industrial action in a building site. (4 marks)
- c) Explain how construction programmes are prepared. (4 marks)
4. a) i) Name the principal concerning incentive schemes. (4 marks)
- ii) Name and explain three advantages and three disadvantages of incentive schemes. (6 marks)
- b) Name four financial incentives that can be used to motivate workers. (4 marks)
- c) Explain the following incentive schemes.
- i. Hourly-plus-rates
- ii. Piece-work. (6 marks)
5. a) Draw a sub-contractors works schedule for a two roomed house for a period of 30 days in installation of water systems. (10 marks)
- b) Draw a Crane and explain how it works. (6 marks)
- c) State two functions of trade unions. (4 marks)