



MACHAKOS UNIVERSITY

University Examinations 2017/2018

**SCHOOL OF ENGINEERING
DEPARTMENT OF BUILDING AND CIVIL ENGINEERING**

**SECOND YEAR SECOND SEMESTER EXAMINATION FOR CERTIFICATE IN
BUILDINGCONSTRUCTION TECHNOLOGY
BCEBT 212: CONSTRUCTION MANAGEMENT IV**

DATE: 11/12/2017

TIME: 8.30-10.30 AM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

1.
 - a) Explain two areas that cause disputes in an organization (4 marks)
 - b) State three areas where an employer is not supposed to pay compensation of inquiry to his employee (6 marks)
 - c) Draw a typical pre tender program for a bridge construction to be performed in ten days following these tasks.
 - Preliminaries
 - Site clearance
 - Foundations
 - Central supports formwork
 - Casting concrete
 - Fixing hand rails
 - Road surfacing
 - Clearing the site (20 marks)
2.
 - a) Explain the following training methods

- i. Apprentice training
 - ii. Vestibule training (8 marks)
 - b)
 - i. Name and explain five application used in a site office (5 marks)
 - ii. State three advantages of P.A.Y.E deductions (3 marks)
 - c) State two votes of the following members in a meeting
 - i. Chairman
 - ii. Secretary (4 marks)
- 3.
 - a) Arrange the following folders as they are filled on the shelves in a site office.
 - i. Contracts
 - ii. Committees
 - iii. Management
 - iv. Office
 - v. Production (10 marks)
 - b) Explain five duties of trade unions (5 marks)
 - c) Name and explain five causes of accident in a site or workshop (5 marks)
- 4.
 - a) State and explain five advantages of industrial training of personal in an organization (10 marks)
 - b) State and explain five office communication documents that are applicable in a site office (5 marks)
 - c) Explain how the numerical filing system is used (5 marks)
- 5.
 - a) Explain the steps followed when appointed to take down minutes in a site meeting as the secretary (10 marks)
 - b) Discuss five areas covered when trade unionist conduct seminars to Workers (5 marks)
 - c)
 - i) Explain three deductions that are mandatory on employees' salaries. (3 marks)
 - ii) State and explain two filling system practiced in site offices (2 marks)



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SECOND YEAR SECOND SEMESTER EXAMINATION FOR CERTIFICATE IN
BUILDING CONSTRUCTION TECHNOLOGY
BCE: BT: 210: GENERAL BUILDING CONSTRUCTION II

DATE: 6/12/2017

TIME: 8.30-10.30 AM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

1.
 - a) Explain the following areas of a chimney
 - i. Chimney
 - ii. Fire place
 - iii. Chimney stack
 - iv. Chimney flue (6 marks)
 - b) When electing drainage pipes the builder places inspection chambers at strategic points. Name two of the points (4 marks)
 - c) Draw a chimney hearth and label its components (20 marks)
2.
 - a) Draw a vertical site hoarding in a site by use posts and iron sheets indicating all the member sizes (10 marks)
 - b) Describe two soil fitments that are used to remove human waste in a public building (4 marks)
 - c) State and explain three classifications of a chimney (6 marks)

3. a) Describe two appliances used to remove waste water from bathing and preparation of foods in buildings (4 marks)
- b) When constructing footpath or footways in areas that obstruct traffic the contractor needs to seek permission from the local authority. Name two types of information needed by the local authority. (10 marks)
- c) State and explain three functional requirements of a chimney (6 marks)
4. a) State and explain five factors considered when selecting specific sanitary fittings (10 marks)
- b) Name and explain three common methods of testing drains in waste water pipes (6 marks)
- c) Name two major functions of a chimney (4 marks)
5. a) Explain the term draft and state three areas that affect its flow (10 marks)
- b) Explain the term site hoarding (4 marks)
- c) State and explain the three grades of man hole covers and frames (6 marks)