

TECHNICAL UNIVERSITY OF MOMBASA

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

FACULTY OF ENGINEERING AND TECHNOLOGY

UNIVERSITY EXAMINATION FOR:

CERTIFICATE IN BUILDING AND CIVIL ENGINEERING

EBC 1205: BUILDING TECHNOLOGY 11

END OF SEMESTER EXAMINATIONS

Series: July 2019

TIME 2 Hours

Instructions to candidates

You should have the following for this examination

- Answer booklet
- Examination pass
- Student ID

This paper consists FIVE questions. Answer THREE questions

DO NOT WRITE ON THE QUESTION PAPER

QUESTION ONE

- a) Explain the procedure of painting a block wall using water paint (8 marks)
- b) State the need of a supervisor in a construction site (4 marks)
- c) Sketch and label a section of formwork to a beam (8 marks)

QUESTION TWO

- a) Outline the advantages of framed structures (6marks)
- b) Explain the procedure of constructing a non-self-centering upper floor (10marks)
- c) Differentiate facings from cladding (4 marks)

QUESTION THREE

- a) Explain the procedure of constructing a concrete wall (8 marks)
- b) Translate : 9 R 1201- 300 as used in reinforcement schedule (8 marks)
- c) Differentiate self-centering and non-self-centering upper floor (4 marks)

QUESTION FOUR

- a) Explain the procedure of constructing a masonry wall using blocks (8 marks)
- b) Sketch and outline the used of metal lathing (6 marks)
- c) Outline the importance of scaffolding in building construction (6 marks)

QUESTION FIVE

- a) Explain the procedure of constructing upper floor using pre cast concrete units (8 marks)
- b) Sketch two typical splice detail for pcc portal frame (8 marks)
- c) State four requirement of formwork in construction (4 marks)