

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

CONSTRUCTION TECHNICIAN II (CTI I12M)

EBC 1307: CONSTRUCTION TECHNOLOGY III

END OF SEMESTER EXAMINATION SERIES: APRIL 2013 TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet

This paper consists of FIVE questions. Answer any THREE questions Maximum marks for each part of a question are as shown This paper consists of TWO printed pages Question One		
a)	State the THREE principal requirements of a fire-place and fuel	(6 marks)
b)	Explain procedures adopted when inspecting smoky chimney.	(10 marks)
c)	Explain the following: (i) Chimney stack (ii) Purpose of flue lining	(4 marks)
Question Two		
a)	Explain the following: (i) Door hanging (ii) Fixing timber skirting	(6 marks)
b)	State FOUR reasons for using suspended ceiling.	(4 marks)
c)	With the aid of a sketch, briefly describe the construction of open ceiling.	(10 marks)
Question Three		
a) b)	State the principle factors influencing the use of steel and concrete framed structure model. With the aid of sketches, briefly explain the following elements of steel stanchion part (i) Slab or bloom base (ii) Stanchion cap (iii) Stanchion cap (iv) Stanchion splice (v) Beam to stanchion connection	(6 marks)
Question Four		
a)	State SIX requirements of form-work.	(6 marks)
b)	With the aid of a sketch, describe typical beam form work.	(8 marks)
c)	State SIX building code requirement of walls.	(6 marks)
Question Five		
a)	State the functions of cladding.	(6 marks)
b)	State the factors considered when designing panel	(6 marks)
c)	With the aid of sketch, briefly describe concrete cladding panel.	(8 marks)