

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

DIPLOMA IN BUILDING & CIVIL ENGINEERING (DBCE 13J)

EBC 2105: WORKSHOP TECHNOLOGY II

SPECIAL/SUPPLEMENTARY EXAMINATION SERIES: OCTOBER 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 THREE printed pages Question One			
a)	List FI	VE types of sanitary appliances.	(5 marks)
,		ne aid of sketches, explain the eating system in direct hot water domestic system ne aid of a sketch, explain the direct domestic cold water system	n (8 marks) (7 marks)
Question Two			
a)	With th	ne aid of a sketch, explain the welding of TWO metals using Gas welding.	(10 marks)
b)	Sketch (i) (ii) (iii)	and label the following: Manhole (MH) Soak pit Single stack	(10 marks)
Question Three			
a)	Sketch (i) (ii) (iii) (iv) (v)	the following: Plain nipple Straight socket Female and female elbow Un equal tee ("T") Pitcher	(10 marks)
b)	With th	ne aid of a sketch, explain the bending of a small diameter plastic pipe using a p	plate. (10 marks)
Question Four			
a)	State F	TVE advantages of screws over nails	(5 marks)
b)	Sketch (i) (ii) (iii) (iv) (v)	the following hinges" Parliament Rising Tee Strap Butt	(10 marks)
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c)		TIVE employment opportunities for a carpenter	(5 marks)
Question Five			
a)	Sketch (i)	and state where each of the following timber joints may be used: Lap	

- (ii) Bird's mouth
- (iii) Mortise and Tenon
- (iv) Loose Tongue and Grooned (10 marks)
- **b)** Describe the following:
 - (i) Starch glue
 - (ii) Casein glue (7 marks)
- **c)** Differentiate shelf life from pot life of glue (3 marks)