DRAWING AND DESIGN PAPER 1

ANSWERS

KCSE 2011

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Drawing and Design Paper 1 (449/1)

(iii)

(iv)

Stainless steel -

Composition

(i)

(ii)

Brass

(a)

4

1	(a)	Requirements				
		(i) Correct thickness of the lines must be maintained.				
		(ii)		aken in positioning.		
		(iii)	Dimension line	es should always have a	arrow heads.	
						$(any 2 \times \frac{1}{2}) = 1 mark$
	(b)	Reasons				
	(0)	(i) To ensure that they maintain their accuracy.				
		(ii) To avoid physical damage.				
		(11)	to avoid phijo	er en		1 mark
2	(a)	Industrial Training Centres Are government or NGO institutions which offer marketable skills at artisan and/ or				
	(a)					
		craft levels. 1 mark				
	(b)	Factors to Consider				
		Cleanliness				
						$(any (2 x \frac{1}{2}) = 1 mark$
		Technique				
			1			
3	(a)	Communicating Design ideas				
	()	(i)	Words			
		(ii) Sketches/ drawings				
		(iii) Models				
		(iv)	Mock-up/ rea	lia		
		(v)	Pictures/ phot			$(any 4 x \frac{1}{2}) = 2 marks$
	(b)	Conventions				
			(0			
				0		
			2			
			(ii)	KATT	$4x^{1/2} = 2$	
				ETHT	$4x^{1/2} = 2$	

0R

copper and zinc

Iron and chromium

 $(4 x \frac{1}{2}) = 2 \text{ marks}$



(b)



8.



9. (a)



Sketch = 1 mark Labelling = $\frac{2\frac{1}{2} \text{ marks}}{3\frac{1}{2} \text{ marks}}$



10.

Sketch = 1 mark Labelling = $\frac{2\frac{1}{2} \text{ marks}}{3\frac{1}{2} \text{ marks}}$



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(b)



- (v) Extreme poverty.
- (vi) Social discrimination.
- (vii) Some cultural beliefs / practices hinder effective maintenance of law / concealing criminals information.
- (viii) High rate of unemployment.
- (ix) Bribery / corruption.
- (x) Greed for material wealth.
- (xi) Inadequate modern equipment to combart crime.
- (xii) Delay in the delivery of justice to the offended.
- (xiii) The citizens lack knowledge on the procedures for the effective maintenance of law and order.

 $6 \ge 1 = 6 \text{ marks}$

Q12 (MS)



13.

Plan = 9 faces $(9x^{1/2}) = 4^{1/2}$ Curve = 1 Front = 2 faces $(2x^{1/2}) = 2$ Elev. Connect groove = 1 Smooth curve = 1 End Elevation = face (1 x 1) = 1Groove = 1Hidden details = 1 Third angle projection = 1 = 1 Scale $= \frac{1}{2}$ Neatness 15 marks



14.