
DRAWING AND DESIGN PAPER 2

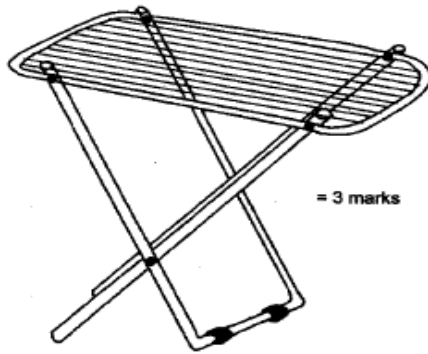
ANSWERS

KCSE 2012

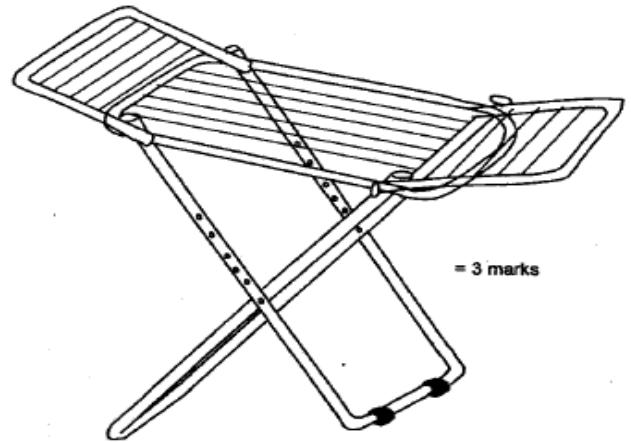
Coordinated by KENPRO, Macjo Arcade, 4th Floor, Suite 15E, Off Magadi Road, Ongata Rongai
|Tel: +254202319748 | E-mail: infosnkenya@gmail.com | Website: www.schoolsnetkenya.com/

4.20.2 Drawing and Design Paper 2 (449/2)

a)



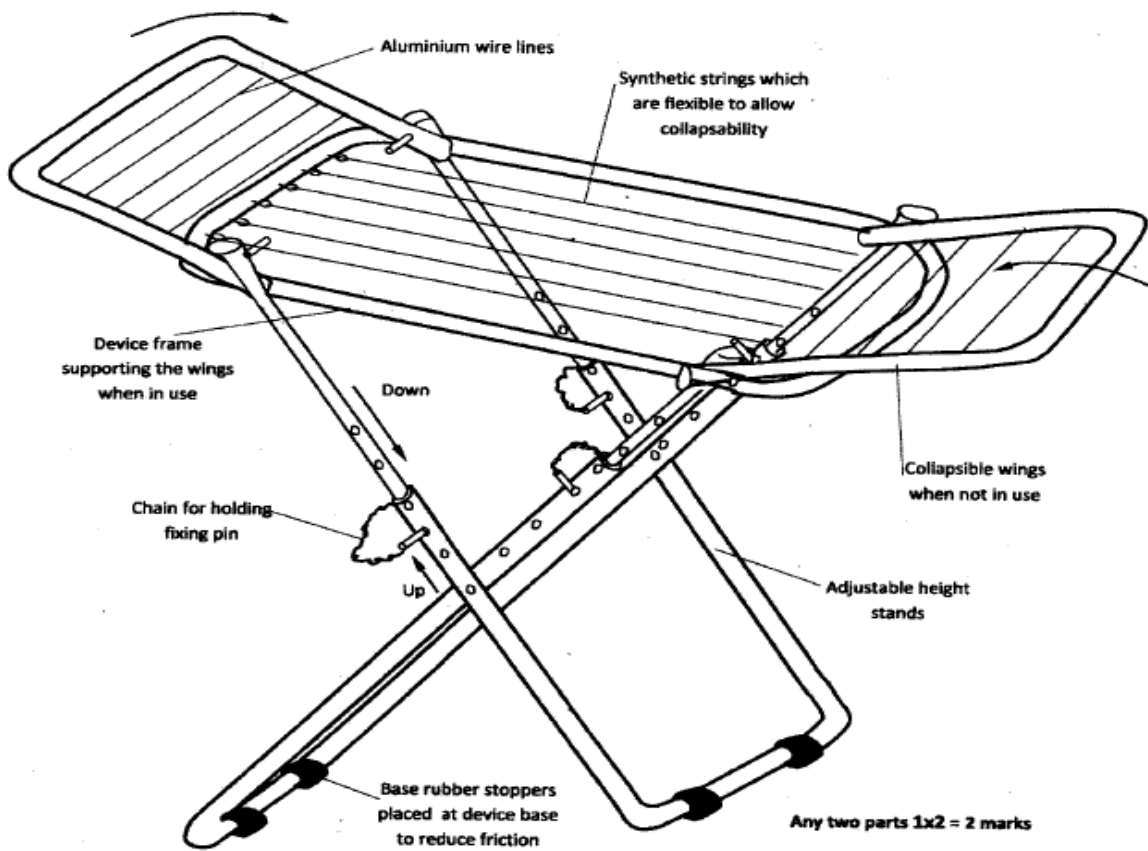
= 3 marks



= 3 marks

Total = 6 marks

b)



Any two parts $1 \times 2 = 2$ marks

Pictorial sketch = 14 marks

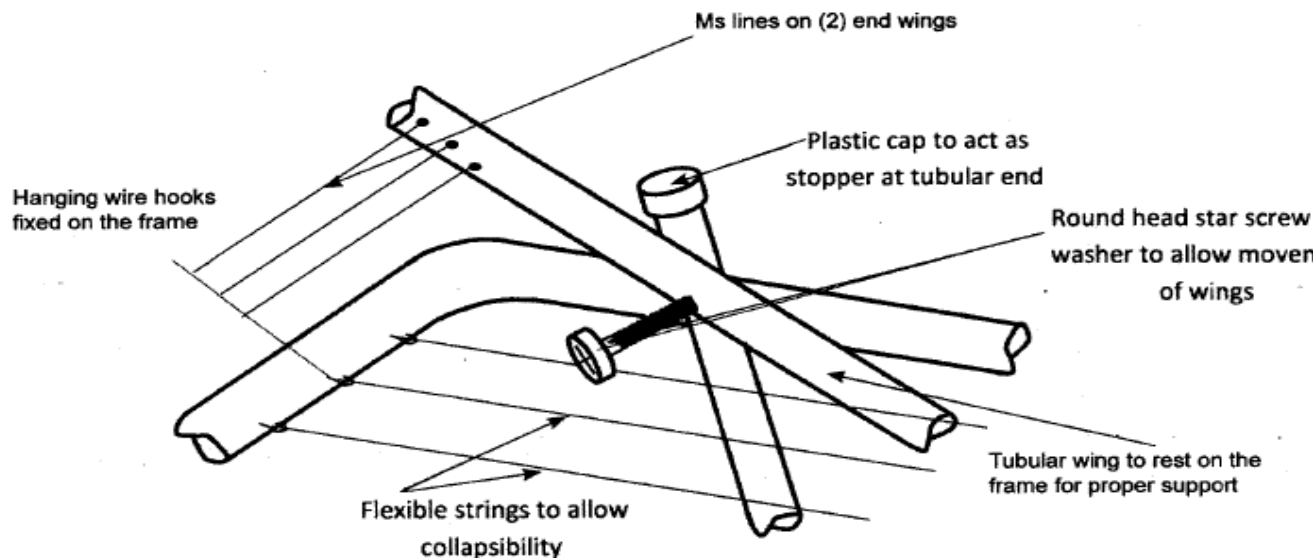
Total = 16 marks

(c)

Consideration i

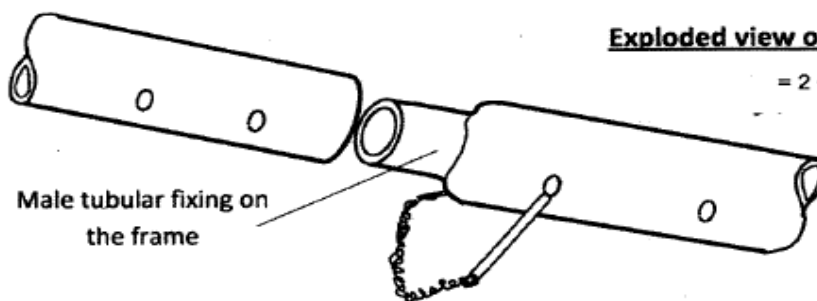
Collapsible wings

= 4 marks



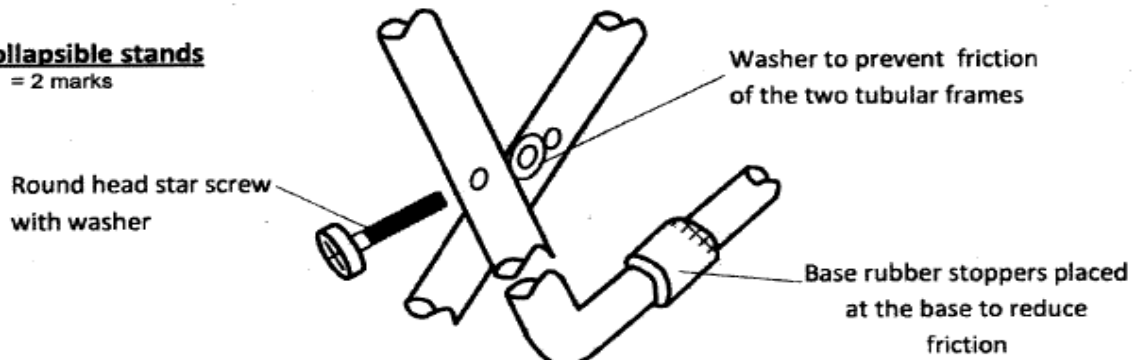
Exploded view of Collapsible side frame

= 2 marks



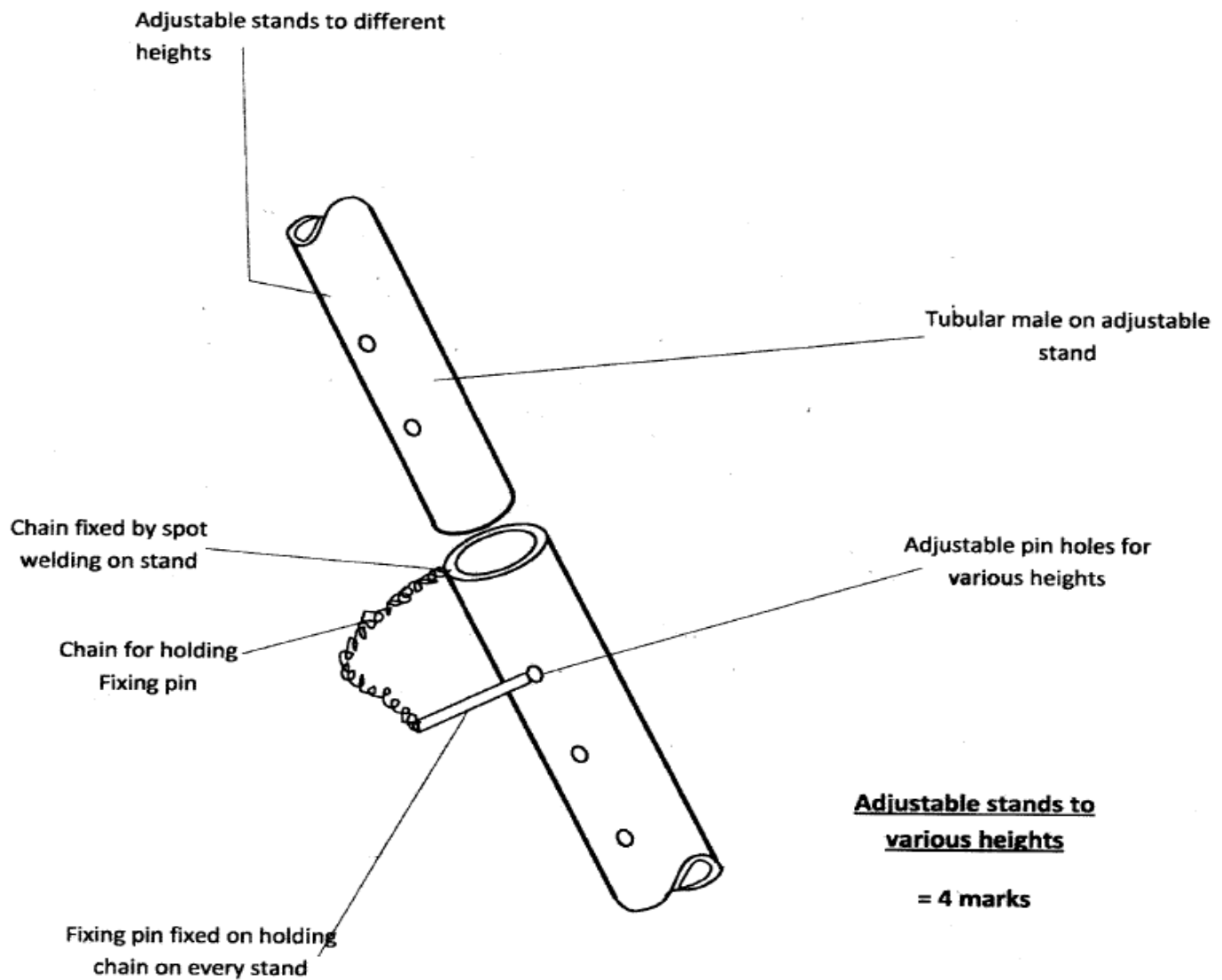
Collapsible stands

= 2 marks



Consideration iii

Exploded



Total 8+ 4 = 12 marks

d) MATERIALS USED

- (i) • Aluminium tubular (1 mark)
- Rubber Stoppers (1 mark)

(ii) CHOICE OF MATERIAL

- Aluminium tubular: - light in weight for easy movement. ($\frac{1}{2}$ mark)
- Rubber stoppers: Anti-slip material to reduce friction on the ground when device is at work. ($\frac{1}{2}$ mark)

3 marks

(e) (i) TWO JOINING METHODS

- Riveting - (1 mark)
- Glueing - (1 mark)

(ii) WHERE APPLIED

- Riveting: - At the stands joints and collapsible wing joints. ($\frac{1}{2}$ mark)
- Glueing:- Fixing Rubber stoppers with strong adhesive to the stand base frame when device is at work. ($\frac{1}{2}$ mark)

3 marks

Total = 40 marks