4.21 DRAWING AND DESIGN (449)

4.21.1 Drawing and Design Paper 1 (449/1)

- 1. (a) Size should be standard
 - White colour / good colour for contract / colour
 - Texture/good quality
 - Paper gauge/thickness
 - Ink must not run on it/ blooting factor
 - The edges should be perpendicular to each other

any 4 x $\frac{1}{2}$ = 2 marks

- (b) (i) $A_0 1188 \times 840$
 - (ii) $A_3 420 \times 297$

 $2 \times 1 = 2 \text{ marks}$

- (c) maintain right angle between blade and stock
 - maintain straightness of blade edge
 - store such that the blade is in a vertical position
 - avoid dropping or storing in direct sunlight
 - Only use it for the intended purpose

any $2 \times 1 = 2 \text{ marks}$

- 2. (a) word processing draw plus
 - corel draw sketch up - Archi-CAD - punch card - Auto-CAD - Inviscape
 - Paint
 Mat lab
 Auto desk
 - Adobe any 6 x $\frac{1}{2}$ = 3 marks
 - (b) Definition
 - Mock-up is a scale model of the finished work made in any suitable material.
 Purpose Mock-up is made and tested to find out weather or not the design is satisfactory
 - Imperfection not seen when drawing may show up clearly in a mock-up

Definition - 1

Purpose - 1 (2 marks)

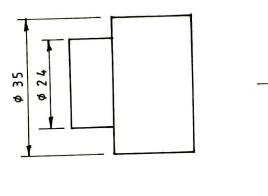
- 3. Ferrous e.g steel
 - Nonferrous e.g copper, level, aluminium, silver, gold
 - Alloys eg. brass, bronze solder

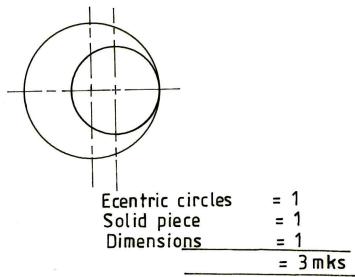
Naming 3 x $\frac{1}{2}$ = $1\frac{1}{2}$

Examples 3 x $\frac{1}{2}$ = $1\frac{1}{2}$

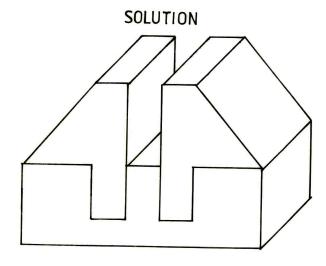
3 marks

- 4. (a) (i) A = $45 \times 2 = 90$
 - (ii) Angle = 25°
 - (i) Measuring 1 Tabulation - 1
 - (ii) Angle 1 (3 marks)



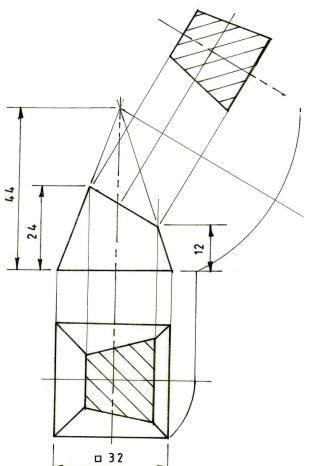


- 5. (a) Fixed assets are properties e.g buildings, machines, and other equipment or facilities that have monetary value. 1 mark
 - (b) Deficit is the amount by which expenditure is greater than income. 1 mark
 - (c) Liabilities is financial obligation 1 mark

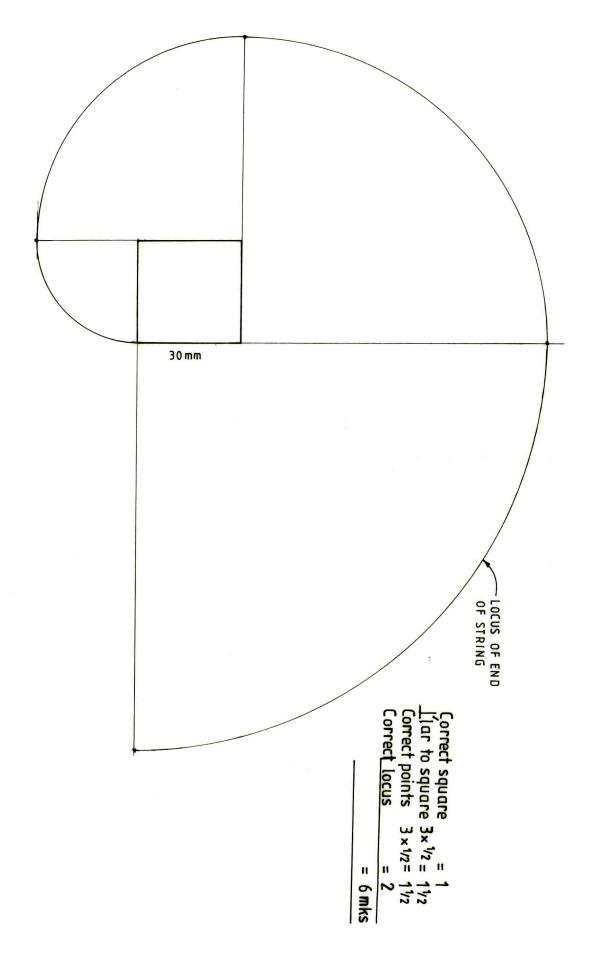


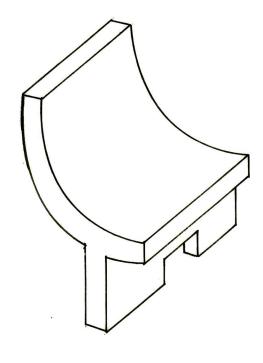
7 faces, $7 \times ^{1/2} = 3^{1/2}$ Assembly $2 \times 1 = 2$ O blique $= \frac{1}{2}$ = 6 marks

7.



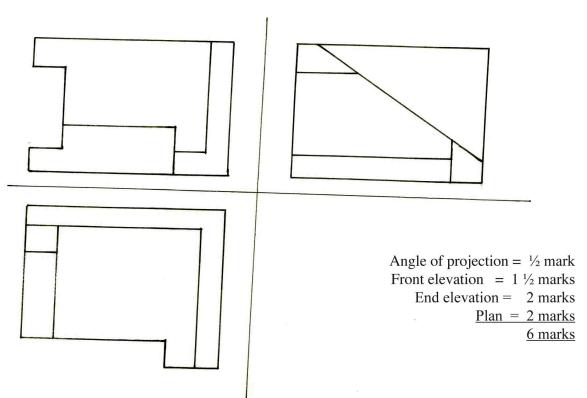
Plan = 1
Hatching = 1
Projection = 1
Plotting points = 1
True shape = 1
= 5 marks

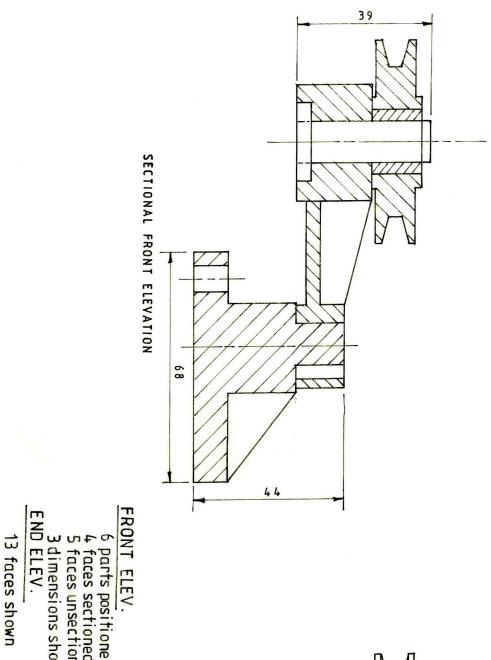




6 faces, $6 \times \frac{1/2}{2} = 3$ Oblique = 1 = 4 marks

10.





6 parts positioned 6×1 6 = 64 faces sectioned $4 \times 1/2$ = 2/1/25 faces unsectioned $5 \times 1/2$ = 2/1/23 dimensions shown $3 \times 1/2$ = 1/1/2END ELEV.

13 faces shown $13 \times 1/2$ = 6/1/2Linework and neatness $= 20 \, \text{marks}$

