## AN ROINN OIDEACHAIS JUNIOR CERTIFICATE EXAMINATION. 1993

MECHANICAL DRAWING -- ORDINARY LEVEL

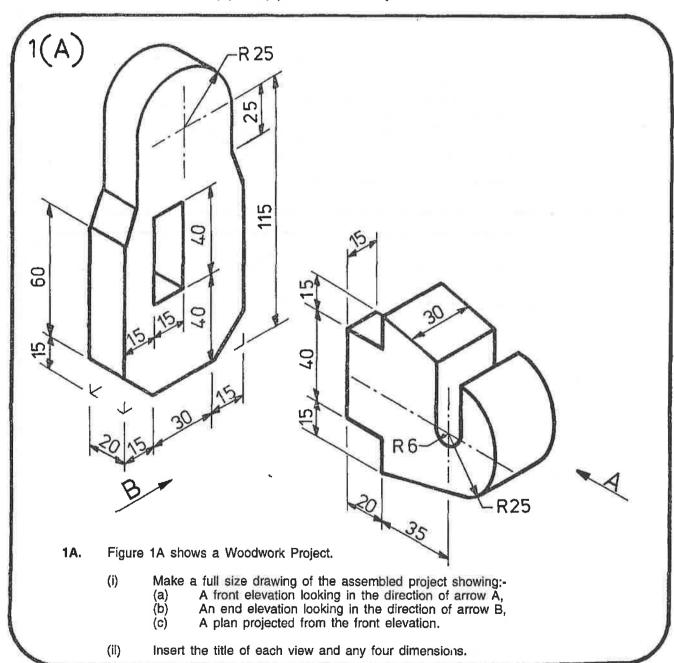
12047

THURSDAY, 17 JUNE - 2.00 to 4.30

## INSTRUCTIONS

- (a) Not more than four questions may be attempted; two of these must be selected from Section 1 and two from Section 2.
- (b) Question No. 1 is compulsory and candidates may choose either 1(A) or 1(B). The number of the question must be distinctly marked by the side of each answer.
- (c) All questions carry equal marks; a maximum of five marks will be awarded for accuracy and neatness of arrangement in respect of each question.
- (d) Work on one side of the paper only.
- (e) Examination number must be distinctly marked on each sheet of paper used.

SECTION 1
Answer 1(A) or 1(B) and one other question from this Section



1 (B)

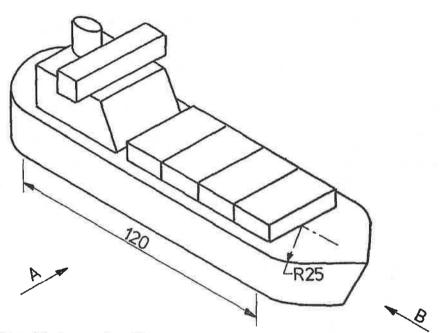


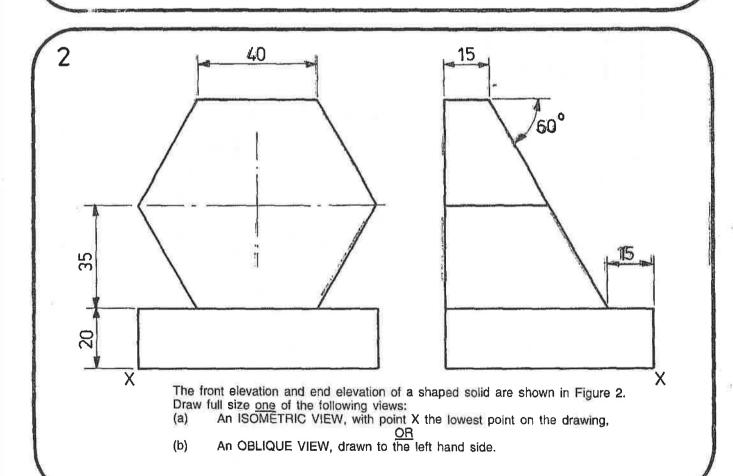
Figure 1B shows a toy ship.

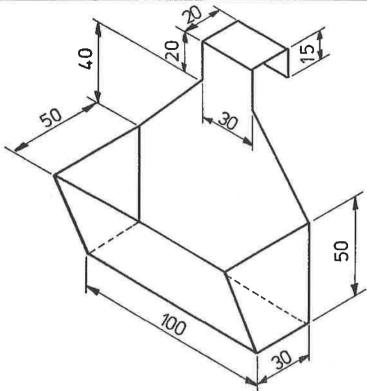
On the squared paper supplied, draw freehand, approximately full size and in good proportion the following:-

A front elevation looking in the direction of arrow A, An end elevation looking in the direction of arrow B, A plan projected from the front elevation. (a)

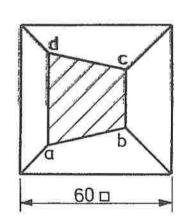
(b)

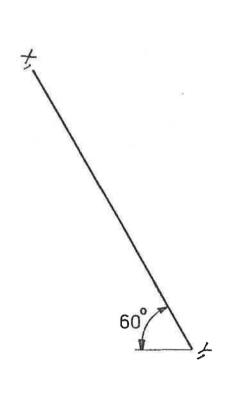
(ii) Insert the title of each view and any four dimensions.





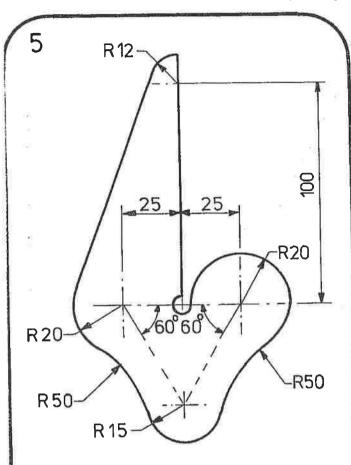
Draw full size the total surface development of the container shown in Figure 3.





The front elevation and plan of a cut square based pyramid are shown in Figure 4. Draw full size:-

- The given elevation and plan.
- (a) (b) (c)
- An auxiliary elevation on the X,Y, line Index points a, b, c and d on all views.



Draw full size the outline of the centre square shown in

NOTE: All construction lines must be clearly shown.

6

Draw full size:-

The outline of the football [Ellipse] as shown in (a) Figure 6, Major axis 140 mm, minor axis 80 mm.

Measure and write down the length and the height (b) as indicated.

All construction lines must be clearly shown. NOTE:

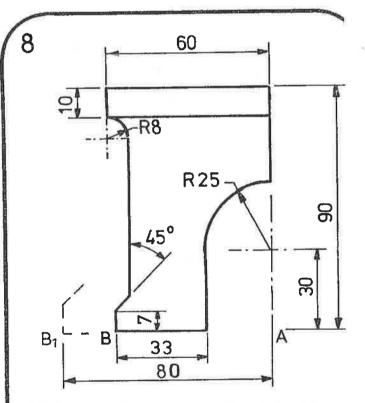
Draw full size:-

A line 200 mm long.

(a) (b) Divide the line into the ratio of 8:5:8 and then draw the triangle ABC as shown in Figure 7.

Using the side bc of the triangle construct (c) a regular pentagon.

NOTE: All construction lines must be clearly shown.



A design for a mantelpiece is shown in Figure 8. Draw full size:-

The given design

(a) (b) A similar mantelpiece increasing the length AB to 80 mm and all other dimensions in the same proportion.

NOTE: All construction lines must be clearly shown.