JUNIOR LYCEUM ANNUAL EXAMINATION 2002

Educational Assessment Unit. Education Division

FORM IV (4th year)	TECHNICAL	DESIGN	Time 2 hours

Instructions

- Write your name and class on ALL sheets.
- Attempt ALL questions.
- Questions should be attempted on the pre-printed answer sheets provided.
- All answers are to be drawn accurately, with instruments, unless otherwise stated
- All construction lines MUST be left on each solution to show the method employed.
- Drawing aids may be used.
- Colour/shading should be used where appropriate.

Information

- All dimensions are in millimetres
- Estimate any dimensions not given.
- Marks will be awarded for accuracy, clarity and appropriateness of construction

NAME	NAMECLA			CLAS	s
QUESTION	1	2	3	4	5
MARK					

Question 1

Draw a Plain/Simple scale, (a Diagonal scale may be used), to measure up to 120mm at a scale of 5:4 and to read to the nearest millimetre.

You are to draw this scale ruler, carefully and accurately, in the space provided for question number 1 on the starter sheet.

15 marks

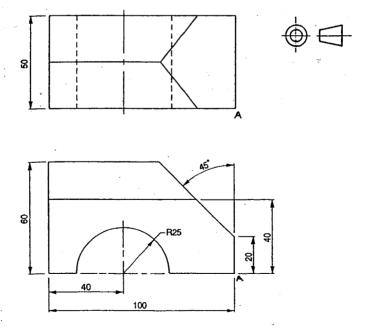
Question 2

The elevation and plan of a solid are given below.

In the space provided for question 2 on the starter sheet and using the scale ruler from question 1:

- a) Copy the two views (enlarged 5:4).
- b) From the above elevations draw an isometric projection of the solid with corner A as the lowest point.

20 marks



Question 3

Safety signs (ideograms) are obligatory in industry. The following European/British Safety Signs are used:

Prohibition (don't do)

Mandatory (must do)

Warning/Caution (risk of danger)

Safe Condition (the safe way)

General (information)

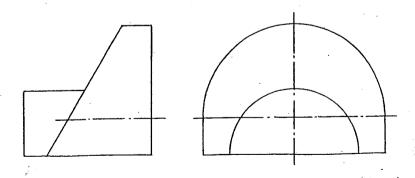
The outlines of these symbols are given on the starter sheet. Your task is to continue their correct design and colours.

20 marks

Question 4

The front and side elevations of a solid are given on the starter sheet. The solid consists basically of 2 semicircular parts, each with a sloping surface and attached to each other as shown. Project a plan from the front elevation. All Construction lines are to be shown.

20 marks

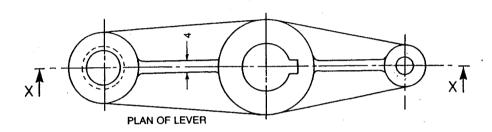


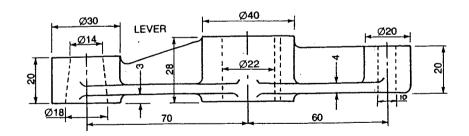
Question 5

The figure shows an elevation and a plan of a ROTARY LEVER. To the dimensions given and using 3rd angle orthographic projection:

- a) Copy the plan and
- b) Draw a sectional elevation X-X.

25 marks







Sometric Projection
Isometric Projection
Isometric Projection
Isometric Projection NAME
NAME

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NAME

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CLASS

QUESTION 5