

JUNIOR LYCEUM and SECONDARY SCHOOL
ANNUAL EXAMINATIONS 2006
Educational Assessment Unit – Education Division

FORM 2

TECHNICAL DESIGN

Time : 2 hours

NAME : _____

CLASS : _____

Instructions

- Write your name and class on all sheets.
- Attempt **ALL** questions.
- 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.
- **You are required to use one side of your drawing paper for question number 2 only.**

Information

- All dimensions are in millimetres.
- Estimate any missing dimension.
- Marks will be awarded for accuracy, clarity and appropriateness of construction.

Question	1	2	3	4	5
Max. mark	10	38	18	16	18
Mark					

Question 1

Draw a borderline and a title (name) block on one side of your drawing paper.
In the appropriate spaces print in freehand simple block letters:

- (a) Your surname and name.
- (b) Your class.
- (c) Date.
- (d) Annual Examination.
- (e) In the middle spaces of your title block write down the name of the drawing in question no. 2 i.e. **GUIDE BRACKET**

10 marks

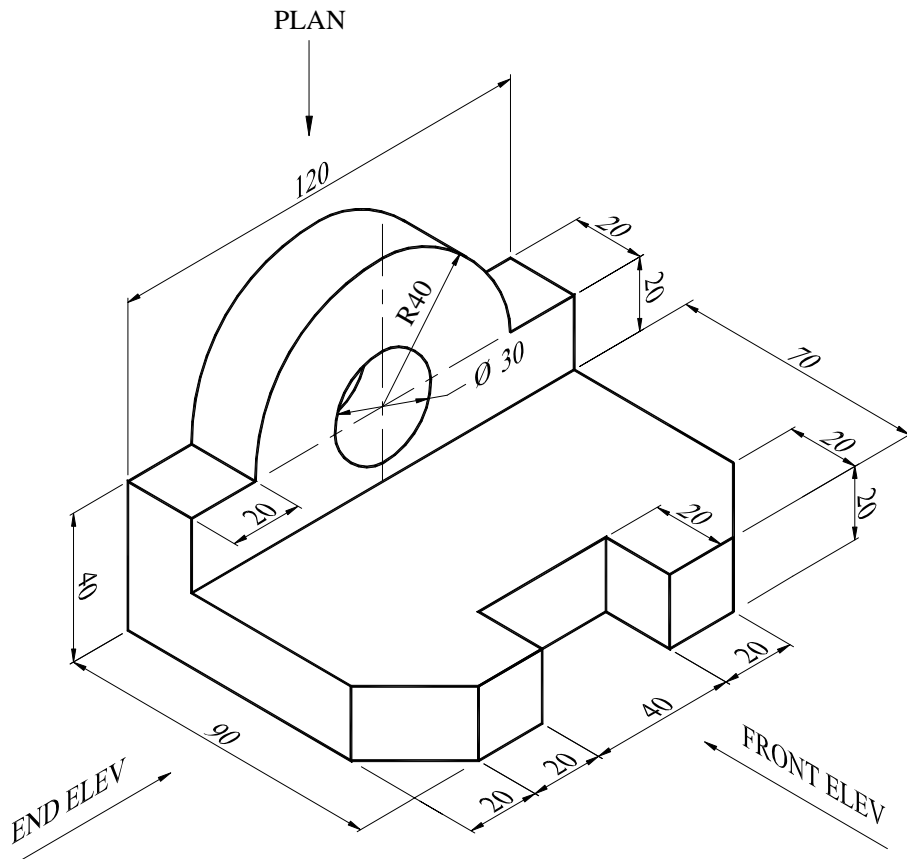
Question 2

The figure below shows a **Guide Bracket**. To the dimensions given and in either first or third angle projection, draw:

- (a) A front elevation 10 marks
- (b) An end elevation 10 marks
- (c) A complete plan 15 marks
- (d) The symbol of the projection used. 3 marks

Note: Insert all hidden details.

Total 38 marks

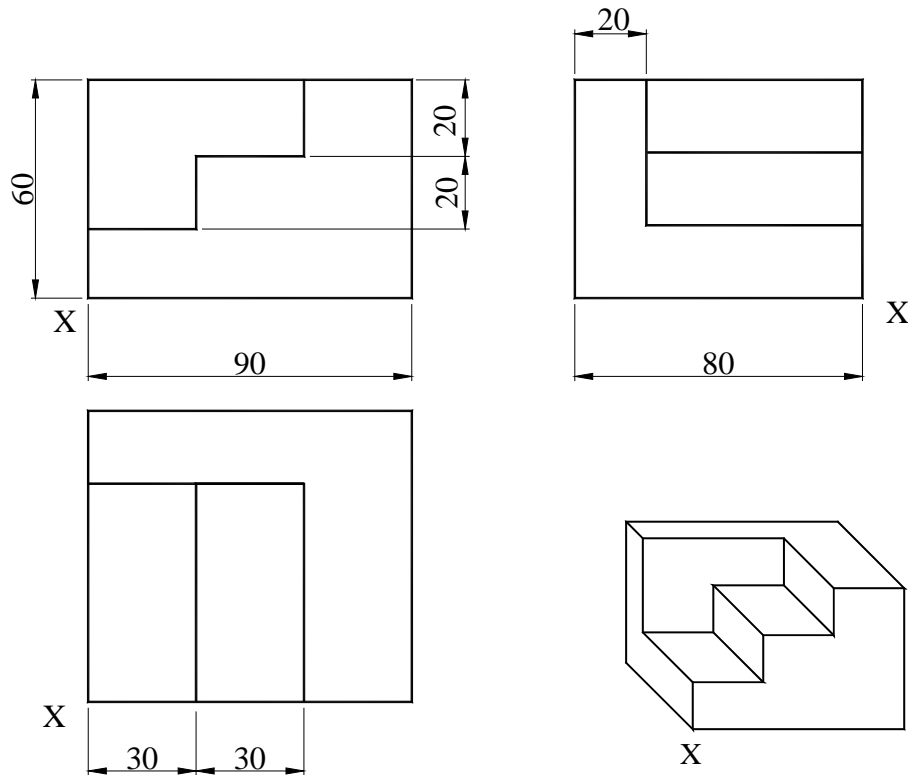


Question 3

The figure below shows three views in first angle orthographic projection and an Oblique view of a stepped block.

Draw, to the dimensions given, an **isometric** view of the component, making **X** the lowest corner in your drawing.

18 marks



Question 4

- Construct a regular hexagon of 60mm side.
- In the hexagon draw 6 equilateral triangles each of 60mm side.
- In **ONE** of the equilateral triangles draw, using geometrical construction, an inscribed circle.

16 marks

P.T.O

Question 5

The figure below shows in first angle projection the elevation and plan of an octagonal prism.

- (a) Copy the two given views.
 - (b) Draw a one piece development of the octagonal prism.
- N.B. Show all necessary construction.

18 marks

