

GEOMETRICAL AND MECHANICAL DRAWING

(One hours)

(Candidates are allowed additional 15 minutes for **only** reading the paper.
They must NOT start writing during this time.)

The intended marks for questions or parts of questions are given in brackets [].

A sheet of drawing paper size A2 (594 mm x 420 mm) is provided.

All dimensions are in millimetres.

Arcs of circles less than 4 mm radius may be drawn freehand.

All construction lines must be shown clearly.

Accuracy and good draughtsmanship are essential.

Letter your name and index number at the bottom right-hand corner of your paper
in a title block 120 mm x 50 mm.

Answer all Questions

Question 1

Draw the three views of the given object (**Figure 1**) in correct projection.

First of Third Angle:

- (a) Front elevation in the direction of the arrow.
- (b) The end elevation (side view).
- (c) The plan (top view).
- (d) Symbol of the method of projection you have chosen.

[10]

[10]

[10]

[5]

Question 2

Figure 2 attached, shows the details of a spigot and socket joint use to connect two rods. Rod 1 is in the form of a spigot (Part 1). Rod 2 is in the form of a socket (Part 2). Spigot is inserted in the socket. After aligning both spigot and socket, the cotter pin (Part 3) is inserted from top thereby keeping the joint tight. The cotter pin (Part 3) is tapered at one end thus preventing the joint to disassemble.

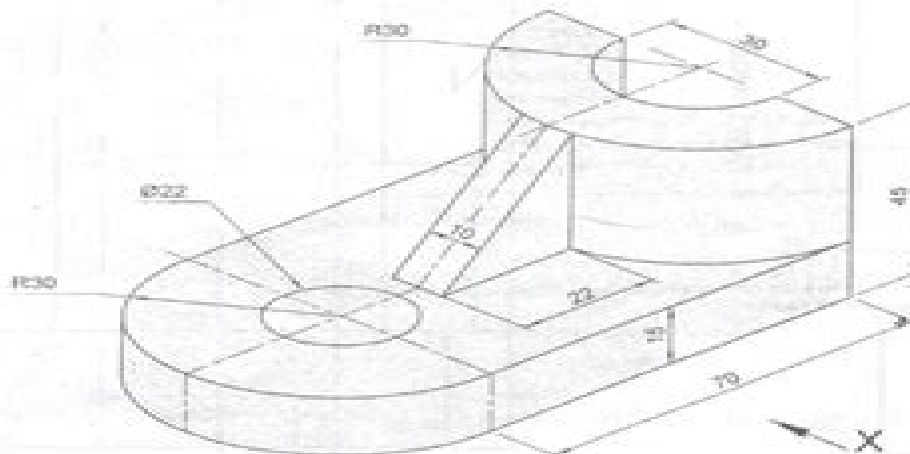
- (a) Draw a full sectional elevation of the assembled components (along A-A).
- (b) Draw the plan (top view) of the complete assembly, omitting all the hidden details.
- (c) Draw the side view of the assembly omitting all the hidden details.
- (d) Make a neat parts list for all the components on your drawing sheet.

[30]

[10]

[15]

[10]



Mechanical Drawing Nprevious Question Papers

A Gutmann



Mechanical Drawing Nprevious Question Papers:

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