*KAMSSA*JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

Wood work

Design and drawing

Paper 2

1. **Instructions to candidates:**
   All measurements are in millimeter
   This question paper consists of two questions 1 and 2
   Answer either question 1 or question 2
   One sheet of drawing paper A 2 size is provided.
   All drawings are not to scale.
   Use discretion where dimensions are not given
   Use both sides of answer sheets if need be.
   In the bottom right hand corner of the paper, draw a title block, Print in the block your name, personal number and the title.

1. Figure 1 shows the outline of an occastional table with around solid top of diameter 600mm and 25 mm thick which fits exactly on the frame as shown.

The top and lower rails are 50mm wide x 30mm thick. The legs are 60mm x 30mm in section. The lower rails are fixed at 100mm from the ground level.

(a) Use the specifications given above to draw a proportional freehand pictorial sketch of the table with conrner **P** in the foreground. (17marks)

(b) To scale of 1:5, draw (02 marks)

(i) a complete front elevation showing hidden details with the top in position onto the frame. (15marks)

(ii) a sectional end elevation along cutting plane **X-X** at a distance of 150mm away from the edge of the table top. (26 marks)

(iii) a full plan showing hidden details. (08marks)

(iv) Add two dimensions on each view (06marks)

(c) Draw exploded freehand sketches of suitable joints between the

(i) lower two rails at the crossing (04marks)

(ii) top rail and the leg. (04 marks)

(d) Sketch two alternative methods of fixing the top to the frame (08marks)

(e) Make a complete cutting list of materials used. (10marks)

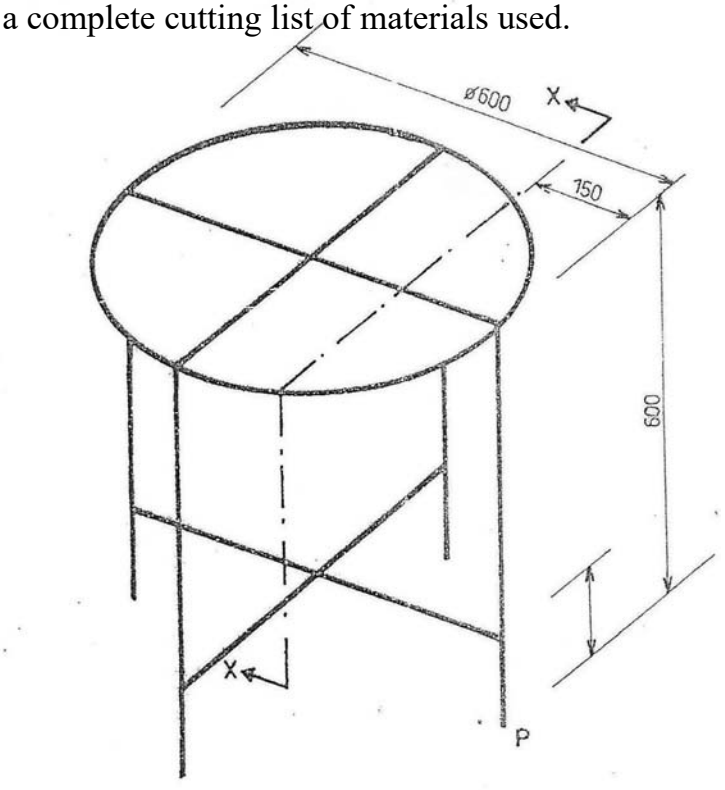


Fig. 1

2. The figure below shows a line diagram of an office desk made in solid wood 20mm thick. The legs and the rails of the table frame are 40mm sq in section.

The desk is fitted with a drawers on the left and the right we have a drawer and paneled door.

Using the information given above.

(a) Draw a good pictorial sketch of the desk with corner **k** in the foreground.

(15marks)

(b) Draw to scale 1:5 (03marks)

(i) The complete front elevation of the desk (12marks)

(ii) a sectional end elevation along cutting planes J-J (15marks)

(ii) add three dimensions to each elevation.

(c) Draw exploded views of joins between;

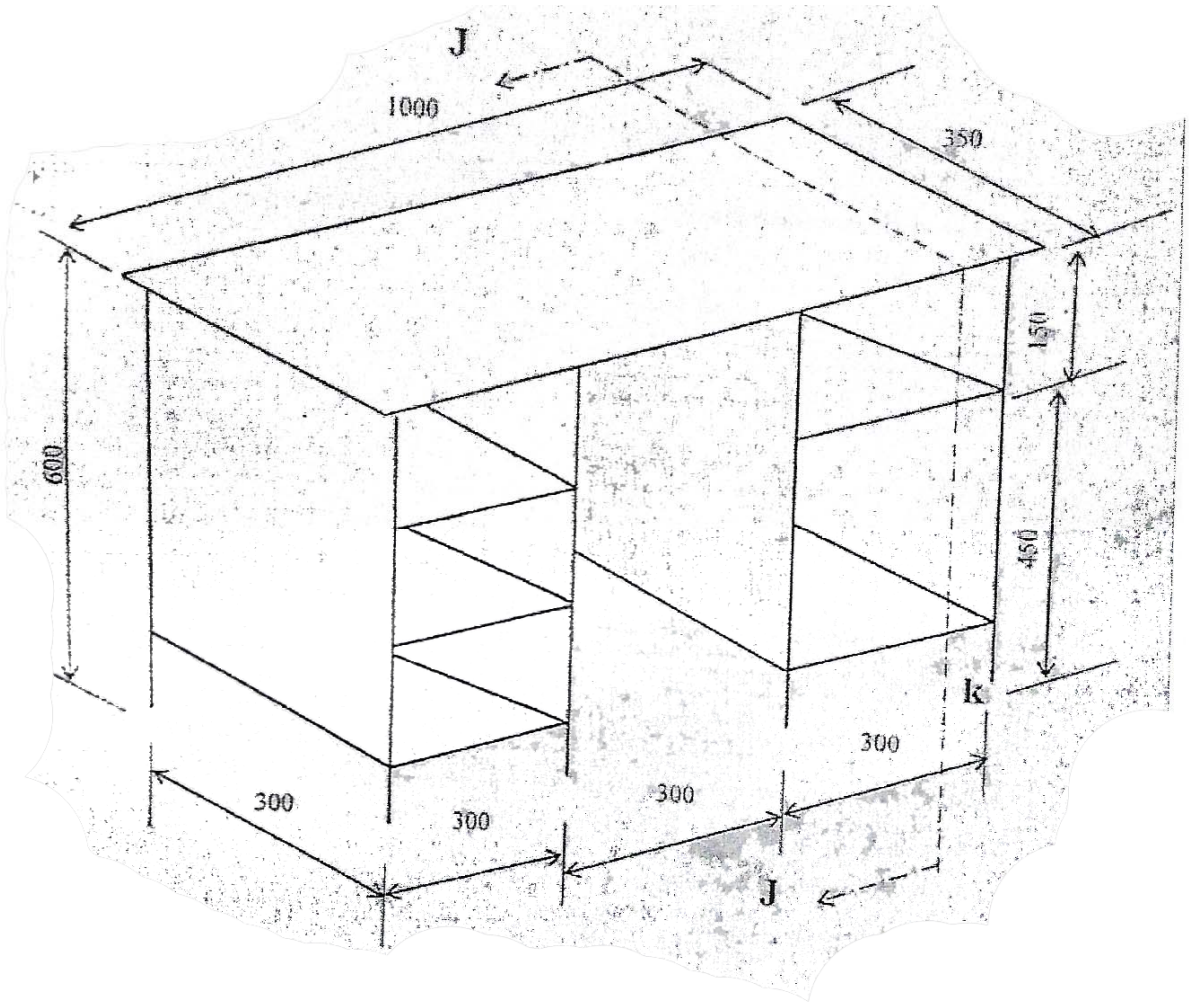
(i) Drawer face and side (08marks)

(ii) between rail and the leg (08marks)

(d) Sketch two methods of fixing the top to the frame. (08marks)

(e) Sketch three alternative ways of fixing the table top to the frame (12marks)

(f) Make a complete material list for the desk (16marks)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