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ROYAL AIR FORCE—AIRCRAFT APPRENTICES

No. 1 RADIO SCHOOL, LOCKING

FINAL EXAMINATION IN EDUCATIONAL SUBJECTS

SEPTEMBER, 1956 (84TH) ENTRY

JUNE, 1957

ENGINEERING DRAWING

Time allowed—Three hours

ALL questions to be attempted

[P.T.O.]

1. Figure 1 shows a casing for a small electric motor. Draw full-size and fully dimensioned :—

(a) A plan.

(b) An end view.

(c) A side elevation looking in the direction of the arrow A, projected from (a) and (b).

The right-hand half of view (c) is to be sectioned along the centre line C-C.

The $\frac{1}{8}$ -in. dia. holes are to be shown by hidden detail in views (b) and (c). No other hidden detail is to be shown.

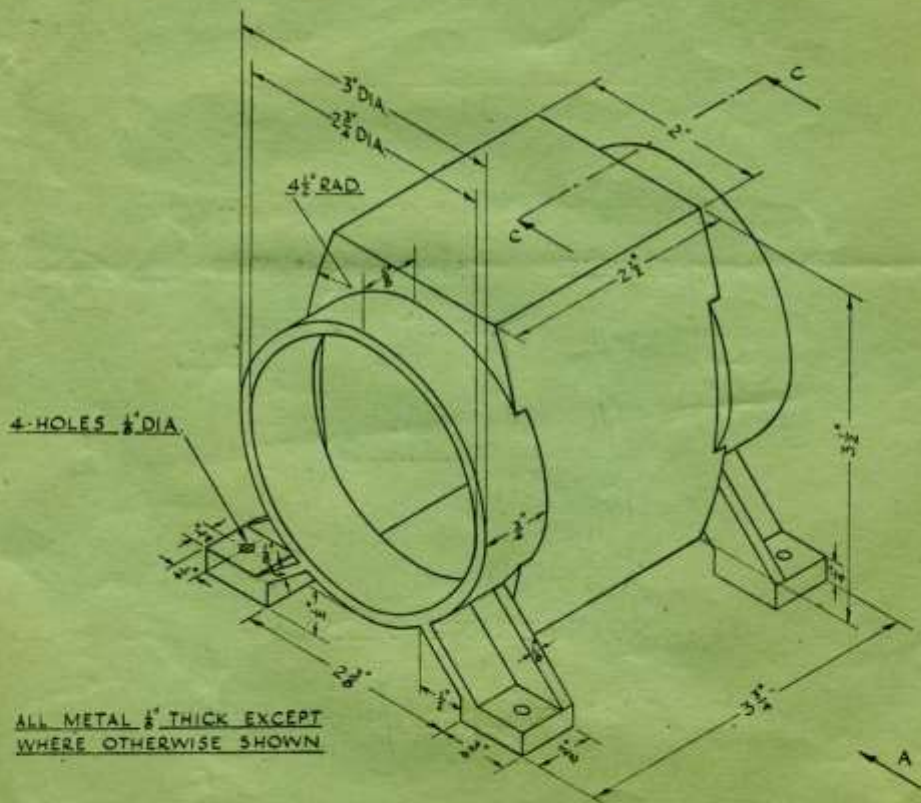


FIG. 1

(100 marks)

2. Draw to a scale of twice full-size an isometric drawing of the wave guide bend shown in figure 2, as viewed from the direction of the arrows A. Neither hidden lines nor dimensions are required.

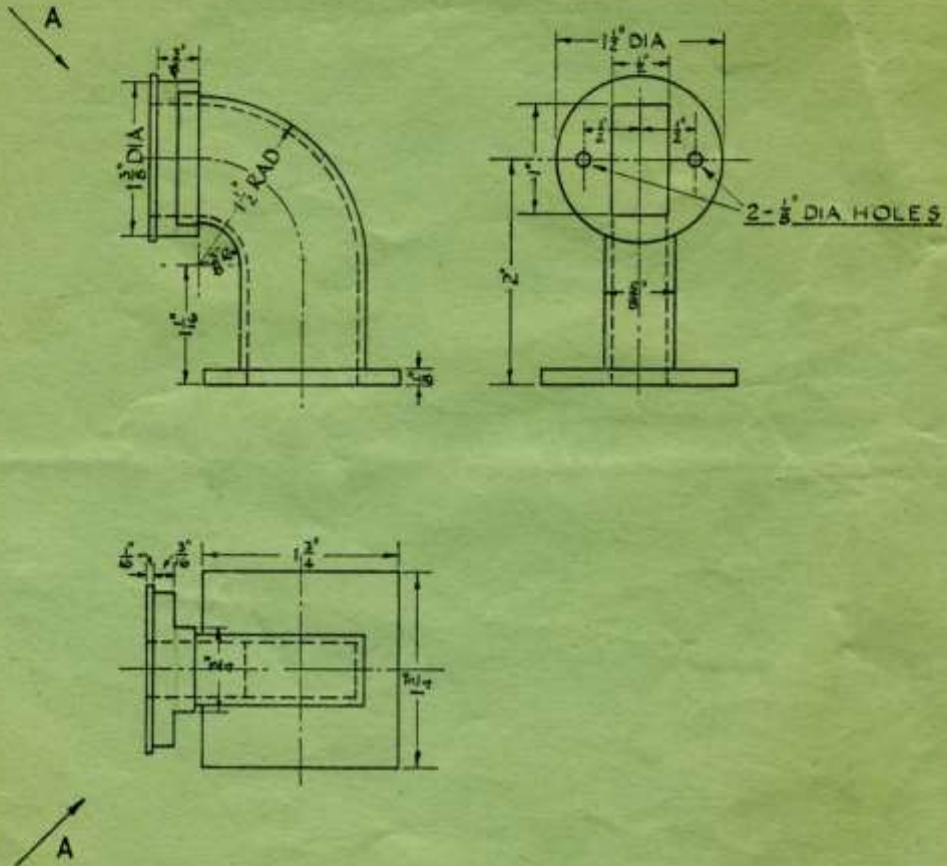


FIG. 2

(60 marks)

[P.T.O.]

3. Prepare a freehand working drawing from the following description :—

A klystron box has external dimensions 5 in \times 5 in \times 10 in, one of the 5 in \times 10 in faces being open, and is constructed of brass $\frac{1}{8}$ in thick. One 5 in \times 5 in face has a $1\frac{1}{2}$ in dia. hole placed centrally, and the adjacent 10 in. \times 5 in face, going in the clockwise direction looking into the box, has a 2 in dia. hole whose centre is 5 in from each end and 2 in from the underside of the base.

The base has two holes each of 1 in dia. whose centres are 5 in from the ends and 1 in and $2\frac{1}{2}$ in respectively from the side of the box containing the 2 in dia. hole.

(40 marks)