

CBSE Class 12 Engineering Graphics 2022 - Set 68



Question Paper

Conducted by the Central Board of Secondary Education (CBSE)

Time Allowed: 2 Hours

Maximum Marks: 35

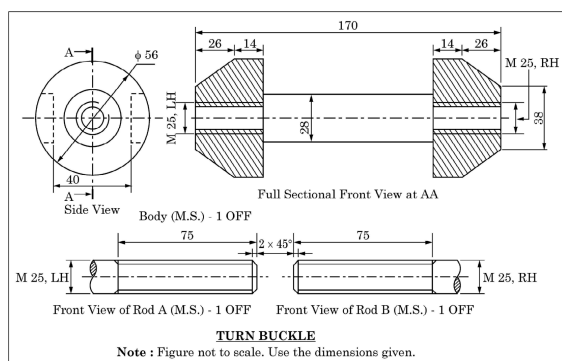
General Instructions

- (i) Attempt all the questions.
- (ii) Use both sides of the drawing sheet, if necessary.
- (iii) All dimensions are in millimetres.
- (iv) Missing or mismatching dimensions, if any, may be suitably assumed.
- (v) Follow the SP 46:2003 revised codes, with first-angle method of projection.
- (vi) In Question 2, hidden edges or lines must be shown in views without section.

Questions

1. Sketch freehand the front view and top view of a **pan head rivet** diameter 25 mm. Keep its axis perpendicular to H.P. Give standard dimensions.

2. FIG. 1 shows the details of the parts of a **TURN BUCKLE**. Assemble all these parts correctly and then draw to scale 1 : 1 its following views. Keep 60 mm threaded portions of each rod inside the body of Turn Buckle.



An enlarged drawing is provided in the drawing references at the end of this paper.

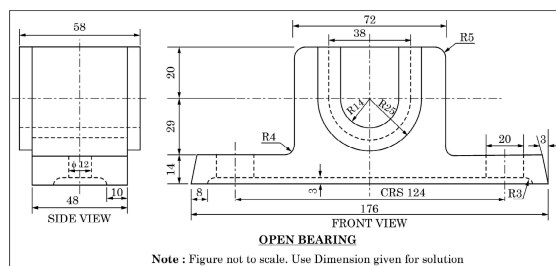
2(i). Front view lower half in section.

2(ii). Top view.

2(details). Print the title and scale used. Draw the projection symbol. Give 6 important dimensions.

OR

2. FIG. 2 shows the assembly of **OPEN BEARING**. Disassemble the parts correctly and then draw to scale 1 : 1 its following views of the following components. Keep the same position of both body and bush with respect to H.P and V.P.



An enlarged drawing is provided in the drawing references at the end of this paper.

2(i)(a). BODY

Full sectional front view

2(i)(b). BODY

Top view

2(ii)(a). BUSH

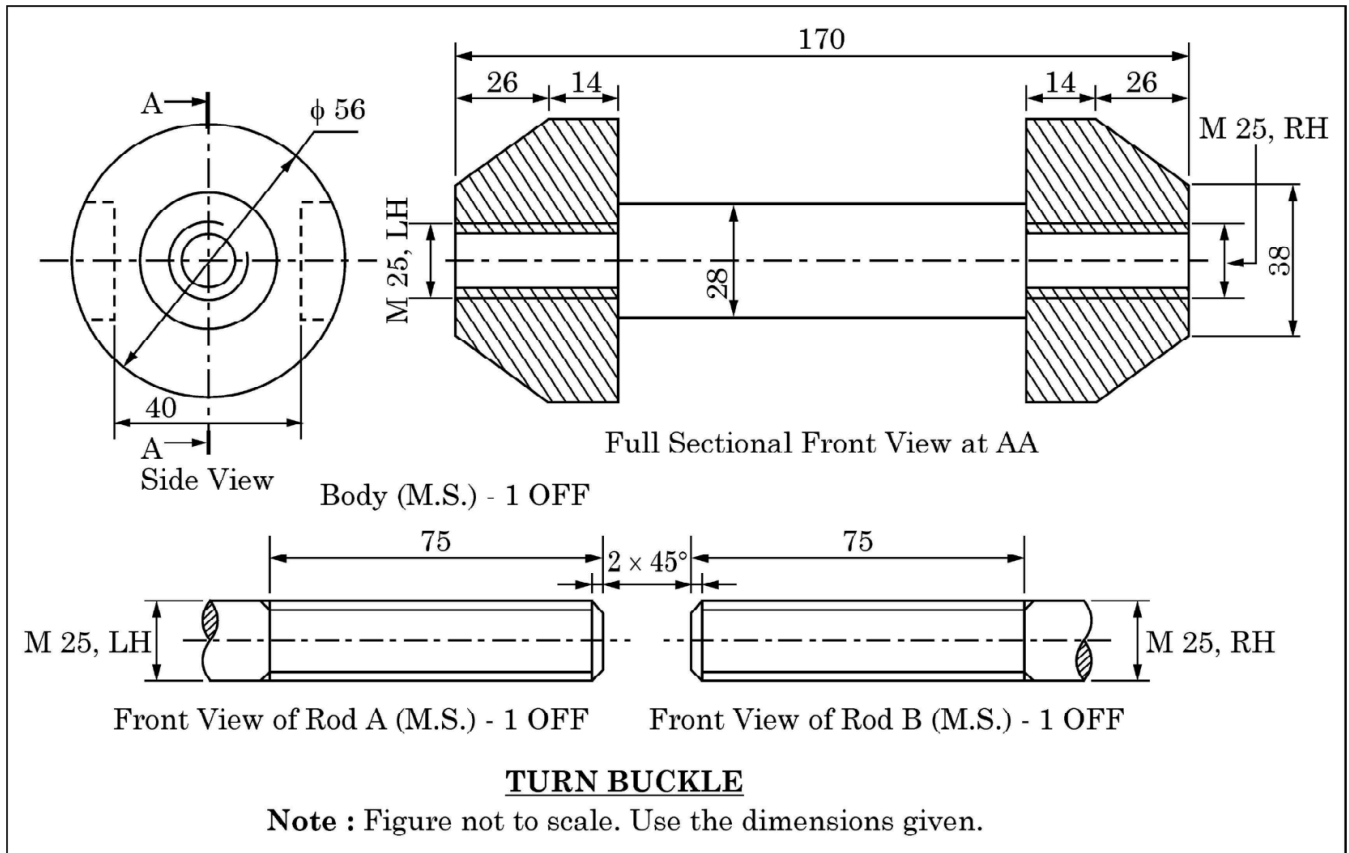
Front view left half in section

2(ii)(b). BUSH

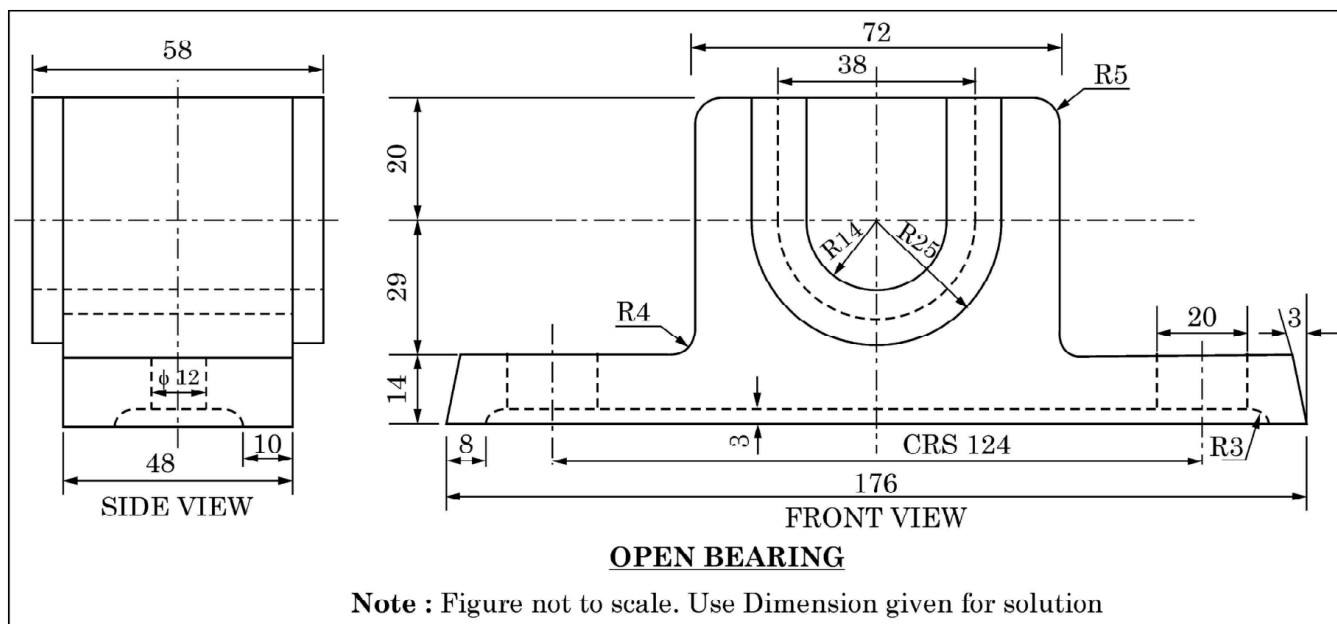
Top view

2(details). Print the titles of both and scale used. Draw the projection symbol. Give 6 important dimensions.

Question 2 — Figure 1



Question 2 — alternative — Figure 2



- End of Question Paper -