higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE (VOCATIONAL)

ENGINEERING GRAPHICS AND DESIGN

(First paper)

NQF LEVEL 3

(6021023)

18 February 2025 (X-paper)
09:00–11:00

REQUIREMENTS: **A4 drawing sheet**
Computer and printer/plotter
CAD program

This question paper consists of 3 pages and 1 diagram sheet.

053Q1S2518

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NQF LEVEL 3
(First paper)
TIME: 2 HOURS
MARKS: 25

INSTRUCTIONS AND INFORMATION

1. Answer all the questions.
2. Read all the questions carefully.
3. Candidates will be responsible for plotting their own drawings under supervision.
4. Plot candidate information at the bottom right corner of the page.
5. Use your discretion where dimensions are not given.
6. A balanced layout is very important and candidates will be penalised for poor planning.
7. Write neatly and legibly.

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QUESTION 1

The DIAGRAM SHEET (attached) shows a half-sectional front view and an outside top view of a footstep bearing in first-angle orthographic projection.

1.1 Use a CAD program to draw, to scale 1:1, a half-sectional view of the footstep bearing with the left half in section. (6)

1.2 Include any FIVE dimensions on the drawing. (5)

1.3 Draw a border line of 10 mm. (2)

1.4 Print QUESTION 1 at the top centre of the sketch. (1)

1.5 Print the title and scale centred beneath the drawing. (4)

1.6 Draw a first-angle orthographic symbol. (2)

1.7 Insert the following information at the bottom right corner of the page:

1.7.1 Examination number

1.7.2 Centre number

1.7.3 Date

(3 × 1) (3)

1.8 Accuracy of the sketch (2)

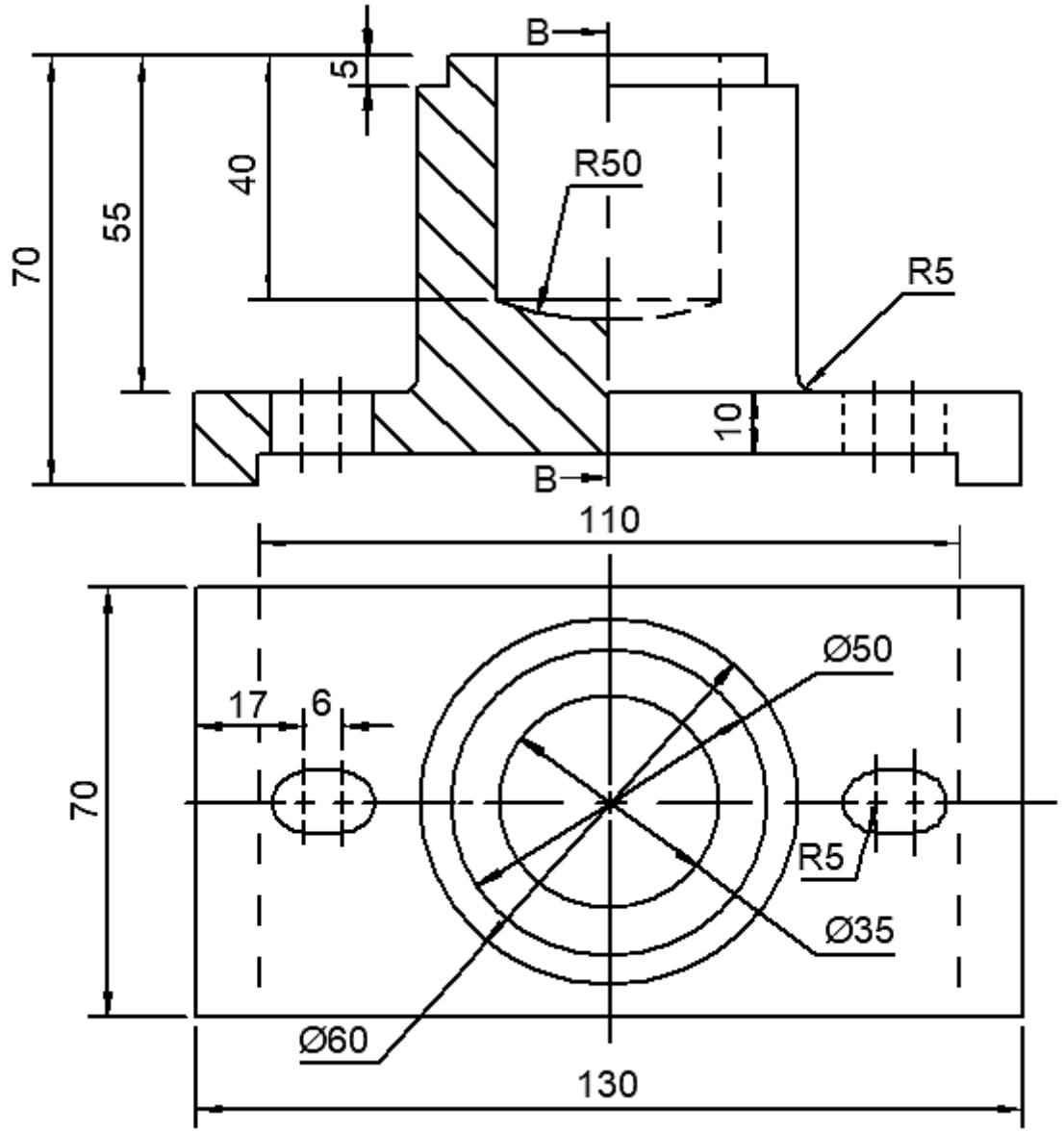
[25]

TOTAL: 25

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DIAGRAM SHEET



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