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)

3 December 2020 (Y-paper)
13:00–15:00

REQUIREMENTS: A4 drawing sheet

Computers, printers and CAD software may be used.

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

261Q1N2003

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TIME: 2 HOURS
MARKS: 25

INSTRUCTIONS AND INFORMATION

1. Answer all the questions.
2. Read all the questions carefully.
3. Number the answers according to the numbering system used in this question paper.
4. Use your discretion where dimensions are not given.
5. Candidates are responsible for plotting their own drawing answers under supervision.
6. A balanced layout is very important, and candidates will be penalised for poor planning.
7. Work neatly.

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QUESTION 1

The DIAGRAM SHEET (attached) shows a view of a crosshead.

1.1 Draw, to scale 1:1, the casted link using a CAD programme. (8)

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 a title and the scale centred beneath the drawing. (4)

1.6 Insert the following information in the bottom right corner of the page:

1.6.1 Examination number

1.6.2 Centre number

1.6.3 Date

(3 × 1) (3)

1.7 TWO marks will be given for the accuracy of the sketch. (2)

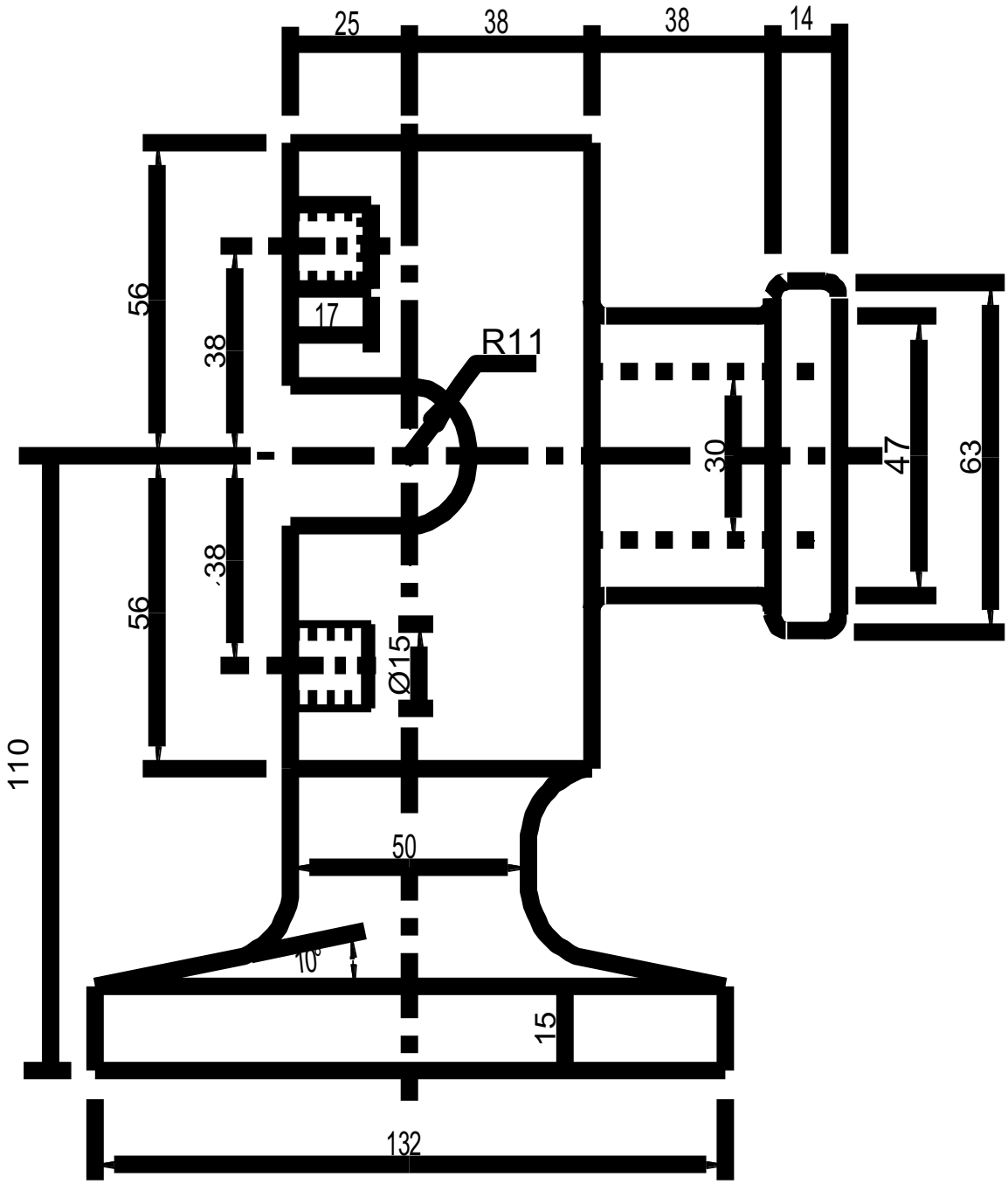
[25]

TOTAL: 25

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DIAGRAM SHEET



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