higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE (VOCATIONAL)

DRAWING OFFICE PROCEDURES AND TECHNIQUES

(Second Paper**)**

NQF LEVEL 2

(12050702)

14 March 2018 (X-Paper)
09:00–13:00

REQUIREMENTS: A4 drawing sheets

CAD software may be used.

This question paper consists of 6 pages.

NCV

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TIME: 4 HOURS
MARKS: 100

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. A balanced layout must be maintained. Candidates will be penalised for poor planning.
5. Include a title bar with the EXAMINATION NUMBER, CENTRE NUMBER and the date on ALL the drawings.
6. Each question must be plotted on a separate A4 drawing sheet.
7. Draw a border around each drawing sheet.
8. ALL the abbreviations and symbols must comply with the latest National Building Regulations and all relevant SANS (SABS) codes.
9. Candidates will be responsible for the printing/plotting of their own drawings under supervision.
10. Work neatly.

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SECTION A

QUESTION 1

1.1 Draw FIGURE 1 below to scale 1 : 1 using the given dimensions.

Plot the drawing in landscape.

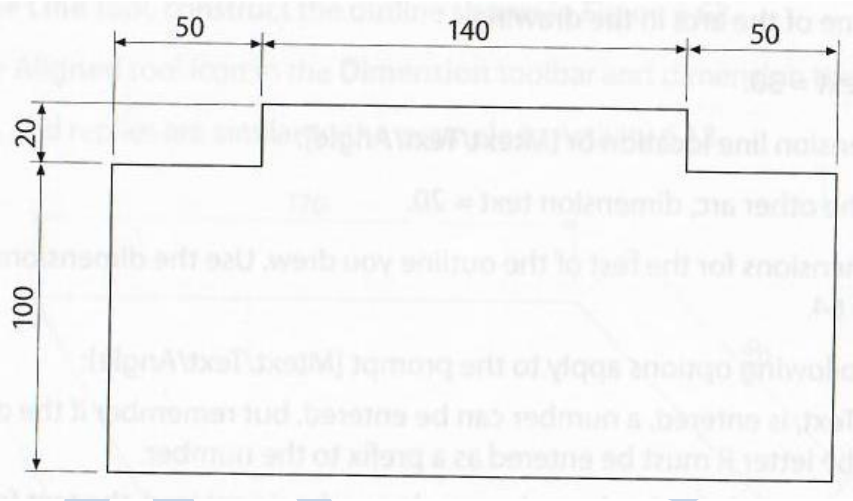


FIGURE 1

(5)

1.2 Draw FIGURE 2 below to scale 1 : 1 using the given dimensions.

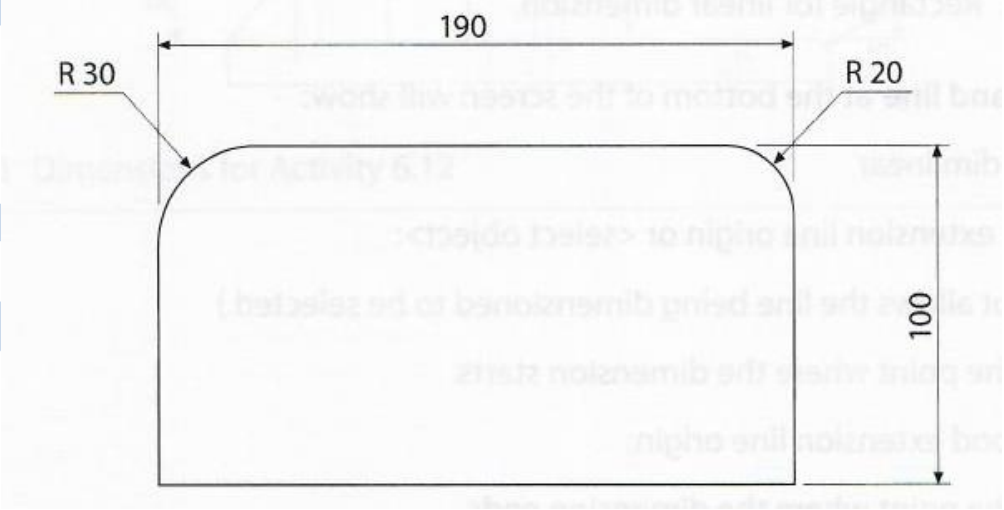


FIGURE 2

(5)
[10]

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QUESTION 2

FIGURE 3 shows a representation of a component.
DO NOT DRAW THE CIRCLES.

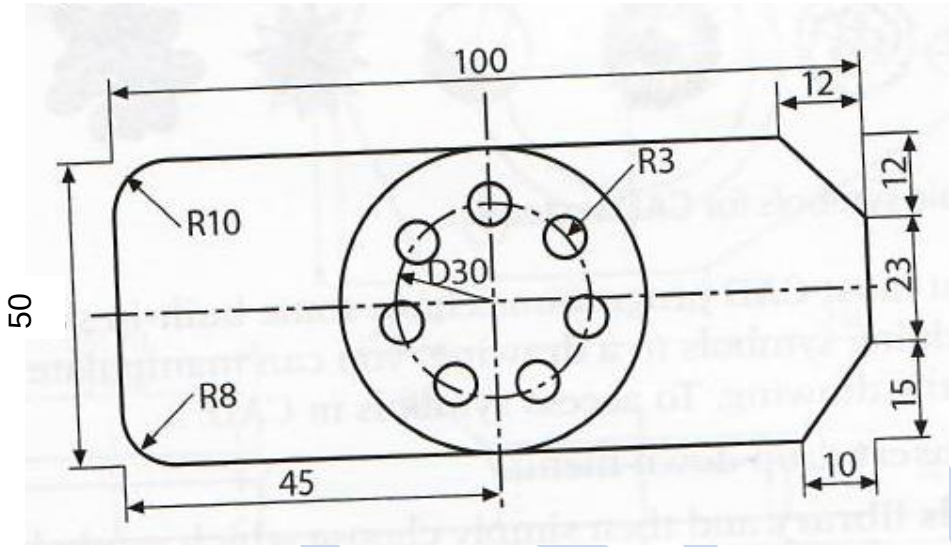


FIGURE 3

Draw the component to scale 1 : 1 on an A4 drawing sheet using a CAD program. (20)

- Include ALL dimensions on the drawing. (6)
- Plot the drawing in landscape. Include ALL candidate information. (4)

[30]

QUESTION 3

FIGURE 4 below shows the view of a support bracket.

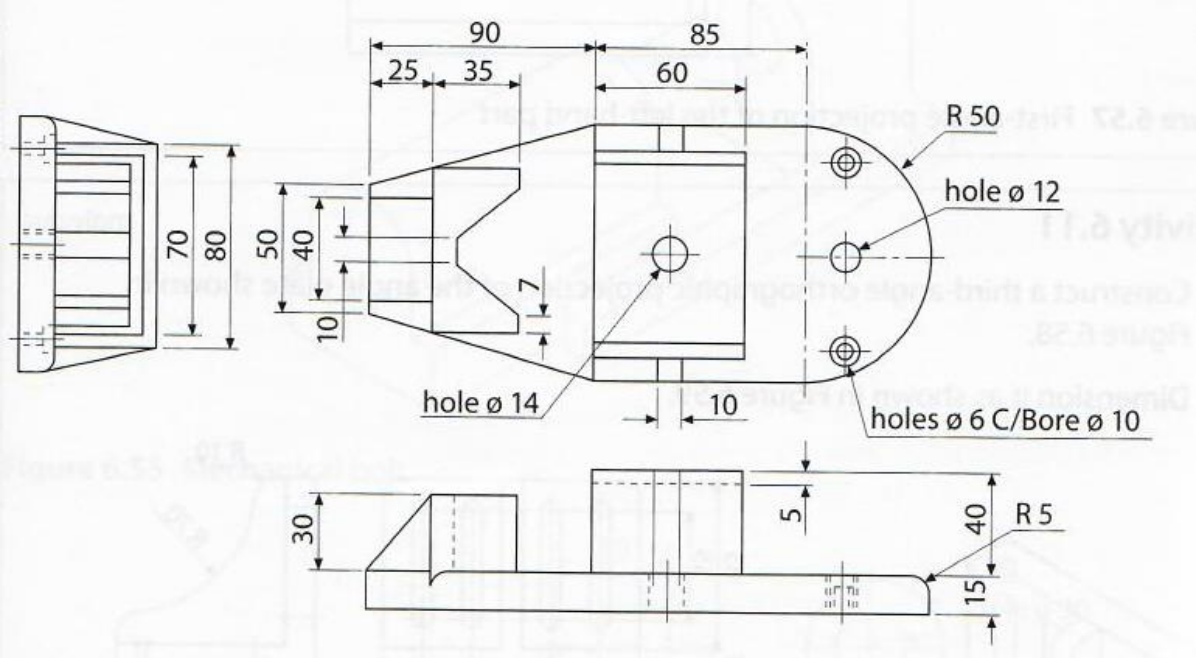


FIGURE 4

Draw to scale 1 : 1 the TWO given views. Draw only the front and the top views. (15)

- Include ALL dimensions. (9)
- Plot the drawing on an A4 drawing sheet. (6)

[30]

QUESTION 4

FIGURE 5 below shows multiple views of a model.

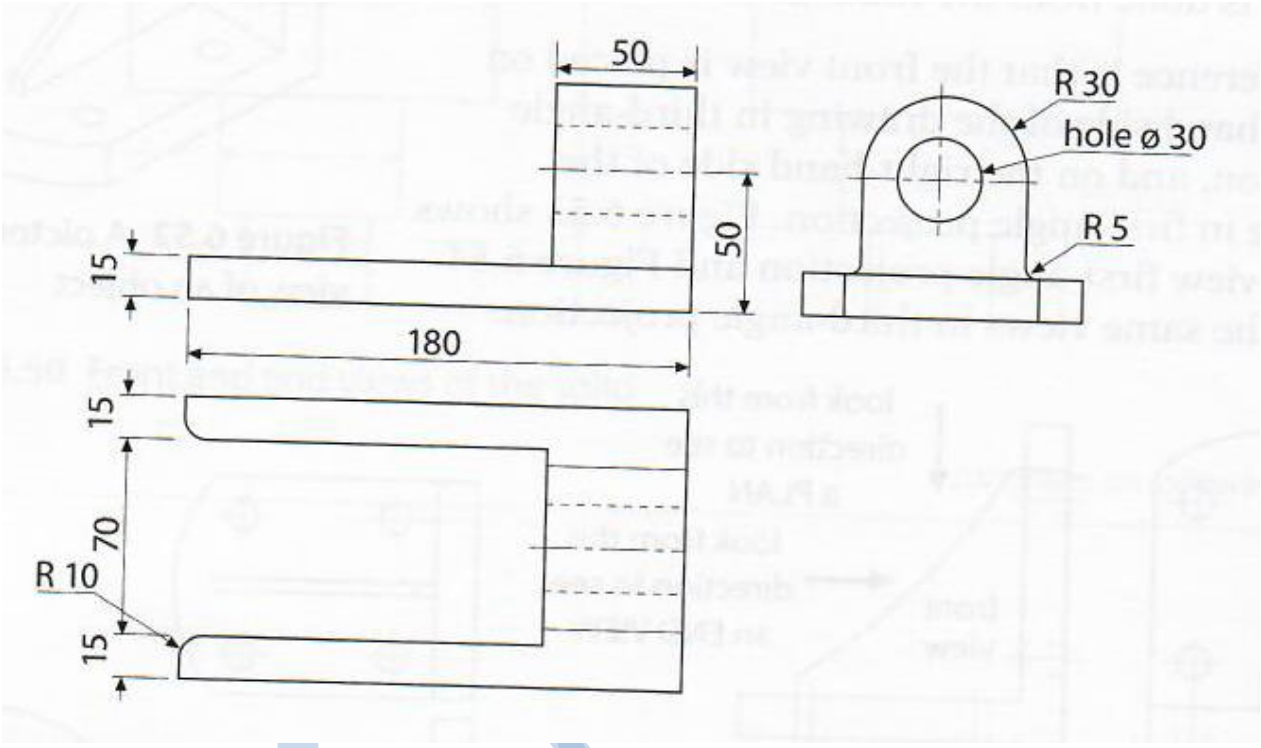


FIGURE 5

Draw the following views to scale 1 : 2 in first-angle orthographic projection on an A4 drawing sheet. Use a CAD program.

Include all hidden lines and dimensions.

4.1 Front view (6)

4.2 Left view (6)

4.3 Top view (6)

- Include a title bar containing the EXAMINATION NUMBER, CENTRE NUMBER, scale, date and QUESTION NUMBER. (12)

[30]

TOTAL: 100

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