

**GAUTENG DEPARTMENT OF EDUCATION
SENIOR CERTIFICATE EXAMINATION**

**WOODWORK SG
(First Paper: Drawing)**

**OCTOBER / NOVEMBER 2005
OKTOBER / NOVEMBER 2005**

TIME: 3 hours

MARKS: 100

REQUIREMENTS:

- Drawing Answer Book (720-2X) containing three A3 answer sheets
- Drawing instruments

INSTRUCTIONS:

- The examination paper consists of FOUR questions.
 - All the questions are COMPULSORY.
 - On completion of the examination, staple your answer sheets in numerical order in the top left corner.
 - Your examination number must be entered in the bottom left-hand corner of each answer sheet.
 - Use your own judgement where dimensions and/or details have been omitted.
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QUESTION 1

Figure 1 on page 6 of this examination paper shows an isometric view of a **napkin ring**. The square hole is placed in the middle of the pentagonal prism.

- 1.1 Draw, to a scale of 1:1, in **third-angle orthographic projection**, the front view, top view and left view in the space provided on answer sheet 1.
- 1.2 Show the following measurements on the front view:
 - (a) The height of the pentagonal prism
 - (b) The height of the square hole
 - (c) The length of the bottom side of the pentagon
- 1.3 Show the projection symbol. [16]

QUESTION 2

Figure 2 on answer sheet 1 shows, in first-angle orthographic projection, the front view and top view of a **napkin holder**.

On answer sheet 1, project, measure and draw an **auxiliary view** as seen in the direction of arrow **P** on the auxiliary vertical plane. [14]

QUESTION 3

Figure 3 on page 7 of this examination paper shows the front view, top view and left view of a **joint construction** in first-angle orthographic projection.

- 3.1 Draw, to a scale of 1:1, on answer sheet 2, **an isometric view** of the parts **A**, **B** and **C** apart from each other but in a position to be joined on the isometric axes.
 - Show the hidden details on part **C**.
 - The parts must not overlap.
 - Use corner **D** for the placing of part **A**. See answer sheet 2. [35]

QUESTION 4

Figure 4 on page 8 of this examination paper shows an isometric view of a **cabinet**.

Dimensions and additional information:

- **The mirror frame:**

- Total measurements: 400 mm x 400 mm.
- The frame is 40 mm wide and 20 mm thick.
- The mirror is 5 mm thick and fits into a 15 mm deep rebate and has to be fitted with a 10 mm x 10 mm beading.
- The auxiliary sketch shows the detail of the mirror-frame supports.

- **The drawer body:**

- The thickness of the wood is 20 mm throughout.

- **The drawers:**

The left hand drawer is removed to show detail.

- The depth of the drawers equals the depth of the drawer body.
- The drawer fronts are 20 mm thick.
- The sides and backs are 15 mm thick.
- The drawer backs are 20 mm lower than the sides.
- The bottoms are 5 mm thick and fit in a groove that runs the whole length of the drawer.

- **The cabinet body:**

- The thickness of the wood is 20 mm throughout except for the back panel which is 5 mm thick.
- The back panel fits into a rebate and is not visible from the sides.
- The top has an overhang of 25 mm on the front and sides.

- **The doors:**

- The rails and stiles are 60 mm wide and 20 mm thick.
- The plywood panels are 5 mm thick and fit into a 10 mm deep groove.

To a scale of 1:5, draw in first-angle orthographic projection on answer sheet 3

4.1 the front view.

4.2 the sectional left view on cutting plane **YY**, with the drawer and door in the closed position.

[35]

TOTAL: 100

FIG. 1

NAPKIN RING
SERVETRING

FIG. 3

JOINTS
VOEË

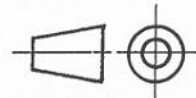


FIG. 4

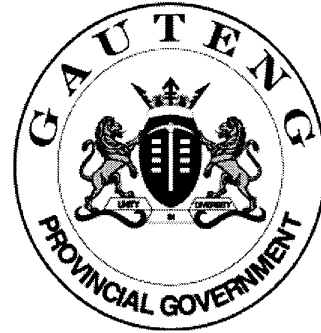
CABINET
KABINET

END / EINDE

CANDIDATE'S NUMBER / KANDIDAAT SE NOMMER

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SENIOR CERTIFICATE EXAMINATION
SENIORSERTIFIKAAT-EKSAMEN



OCTOBER / NOVEMBER
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2005

WOODWORK
HOUTWERK

First Paper: Drawing
Eerste Vraestel: Tekene

SG

720-2/X

DRAWING ANSWER BOOK
TEKENE ANTWOORDBOEK

3 pages/bladsye

	PNS / PTE	M / N	HM / HN
QUESTION / VRAAG 1	16		
QUESTION / VRAAG 2	14		
QUESTION / VRAAG 3	35		
QUESTION / VRAAG 4	35		
TOTAL / TOTAAL:	100		



PERCEPTION / INSIG

• Placing / Plasing	4	
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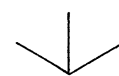
GENERAL / ALGEMEEN

• Lines / Lyne	8	
• Hidden detail of C / Versteekte besonderhede van C	18	

ACCURACY / AKKURAAHEID

• Part A / Deel A	36	
• Part B / Deel B	27	
• Part C / Deel C	12	

TOTAL / TOTAAL:	105	
	÷ 3	35



D

EXAMINATION NUMBER / EKSAMENNUMMER

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JOINTS / VOEË

**QUESTION 3
VRAAG 3**

PERCEPTION / INSIG

• Views drawn / Aansigte geteken	4	
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GENERAL / ALGEMEEN

• Lines / Lyne	3	
• Hatching / Arsering	17	

ACCURACY / AKKURAATHEID

• Front view / Vooraansig	62	
• Sectional left view / Snit-linkeraansig	54	

TOTAL / TOTAAL:	140	
	÷ 4	35

EXAMINATION NUMBER / EKSAMENNUMMER											

CABINET / KABINET

**QUESTION 4
VRAAG 4**