

GAUTENG DEPARTMENT OF EDUCATION  
SENIOR CERTIFICATE EXAMINATION

WOODWORKING SG

OCTOBER / NOVEMBER 2005  
OKTOBER / NOVEMBER 2005

TIME: 3 hours

MARKS: 200

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**REQUIREMENTS:**

- Drawing answer book 717-2X with A3 drawing paper

**INSTRUCTIONS:**

- Answer ANY FIVE questions.
  - Answer all questions, drawings **as well as** written answers on the **drawing paper**.
  - Use both sides of the drawing paper.
  - Write your examination number in the title block.
  - Drawings must be fully dimensioned and neatly finished with titles and notes, which conform to the SABS Recommended Practice for Building Drawing.
  - For the purpose of this examination, a brick size should be taken as 220 mm x 110 mm x 75 mm.
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**QUESTION 1**

A double-storey building is to be supported on the outside by single raking shores.

- 1.1 Draw to a scale of 1:50 a vertical section through the outside wall of the building showing the construction of one of the shores in position. (20)

Raking Shore = 228 mm x 228 mm  
Needle = 300 mm x 100 mm x 100 mm  
Cleat = 200 mm x 100 mm x 100 mm  
Wall plate = 228 mm x 75 mm

- 1.2 Draw to a scale of 1:5 an isometric sketch of the head of one of the shores, clearly showing the method of connecting the shore, wall-plate and needle. (10)

- 1.3 Draw to a scale of 1:5 an isometric sketch of the lower end of one of the shores. Clearly show how the raker, cleat, sole plate and platform of planks are connected. (10)  
**[40]**

**QUESTION 2**

- 2.1 The walls of an entrance hall are flush panelled to a height of 1 200 mm above the floor. The panels are made of 6 mm thick plywood, the skirting is 75 mm x 20 mm, the dado capping is 60 mm x 30 mm, rough grounds are 50 mm x 20 mm and the cover strips are 22 mm x 10 mm.

Draw to a scale of 1:10

- 2.1.1 the front elevation of part of the panelling, approximately 1 500 mm long. (20)
- 2.1.2 a vertical section of the wall panel to show all the parts, from the floor up to and including the dado capping. (20)
- [40]**

**QUESTION 3**

Draw to a scale of 1:10, the front view of a double casement window with two fanlights and two casement sashes opening outwards with head of frame, frame stiles and mullion. Each sash has four 450 mm x 250 mm glass panes, fitted between horizontal glazing bars. Each fanlight has only one 425 mm x 250 mm glass pane.

The other components have the following dimensions:

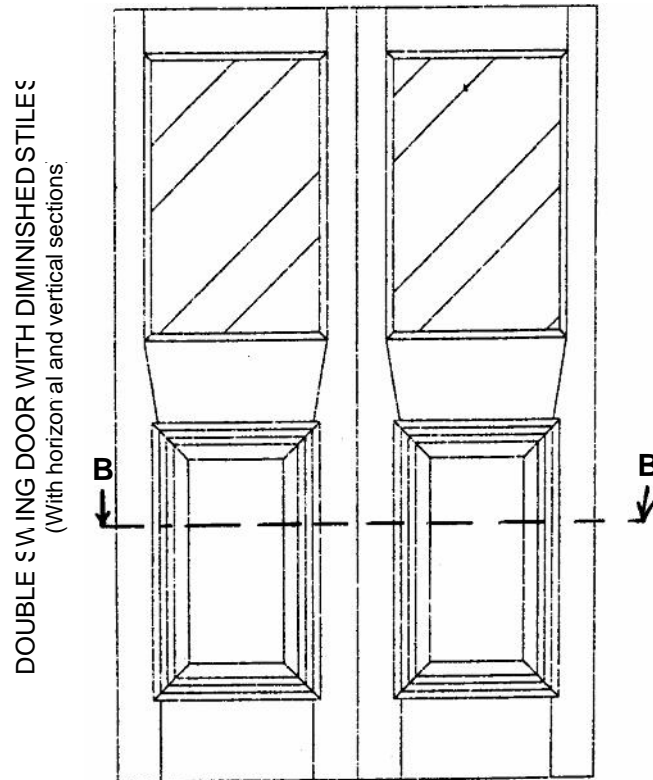
Head of frame, frame stiles and mullion	: 76 mm x 114 mm	
Top rail of casement and fanlight	: 60 mm x 44 mm	
Sash stiles	: 60 mm x 44 mm	
Transome and weathered window sill	: 76 mm x 150 mm	
Sash bars	: 30 mm x 44 mm	
Bottom rail of sash	: 76 mm x 44 mm	
Bottom rail of fanlight	: 76 mm x 44 mm	<b>[40]</b>

**QUESTION 4**

- 4.1 List FIVE safety measures to be followed when working with a circular saw. (10)
- 4.2 State FIVE safety precautions to be considered when using an emery grinder. (10)
- 4.3 State FIVE essential features of formwork or shuttering. (10)
- 4.4 State FIVE general safety measures to be followed when operating a bandsaw. (10)
- [40]**

**QUESTION 5**

5.1 Draw to a scale of 1:2, the following:



5.1.1 The horizontal section B-B

(20)

5.1.2 Details of the swing door and spring hinge

(20)

**[40]**

**QUESTION 6**

6.1 A circular table with a diameter of 1 300 mm has a turned pedestal leg with a maximum diameter of 150 mm, ending in a hexagon into which three matching legs are morticed. The top is 25 mm thick with an overhang of 25 mm and is finished off with a thumb mould. The table has a 75 mm x 40 mm built-up rail and is covered with 3 mm plywood. Each of the three morticed legs are 40 mm thick and are fixed in such manner that they encompass a circle having a diameter of 900 mm. The total height of the table is 760 mm.

Draw to a scale of 1:10, a sectional front elevation of the table as well as a top view showing the table with part of its top removed to show the built-in railing.

(20)

6.2 Draw, to a scale of 1:1 a top view through the built-up railing and a part of the top. Show clearly the method used to connect the top and the railing.

(20)

**[40]**

**QUESTION 7**

- 7.1 A straight flight of concrete stairs consists of eight steps, each with a rise of 150 mm and a tread of 280 mm. The staircase begins on a concrete floor and ends on a 900 mm wide landing, supported by an unplastered wall which is one brick thick.

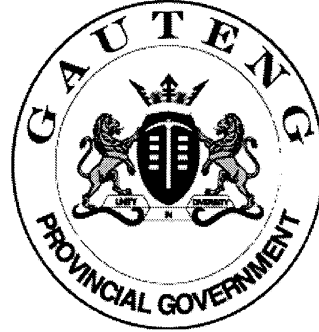
Draw to a scale of 1:20, a vertical section through the length of the staircase, showing the formwork and necessary supports.

**[40]****TOTAL: 200****END**

CANDIDATE'S NUMBER / KANDIDAAT SE NOMMER

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**SENIOR CERTIFICATE EXAMINATION**  
**SENIORSERTIFIKAAT-EKSAMEN**



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

**WOODWORKING**  
**HOUTBEWERKING**

**DRAWING ANSWER BOOK**  
**TEKENE ANTWOORDBOEK**

**SG**

**717-2/X**

*4 pages / bladsye*

<b>QUESTION VRAAG</b>	<b>MARKS PUNTE</b>	<b>INITIAL PARAFEER</b>
1		
2		
3		
4		
5		
6		
7		
<b>TOTAL / TOTAAL</b>		







