SENIOR CERTIFICATE EXAMINATION



FEBRUARY / MARCH 2007

METALWORK

SG

First Paper

719-2/1 E

METALWORK 8G: Paper 1 Question Paper & Answer Book



3 pages

X05



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METALWORK SG		
(First Paper)	719-2/1 Z	2

GAUTENG DEPARTMENT OF EDUCATION

SENIOR CERTIFICATE EXAMINATION

METALWORK SG (First Paper: Drawings)

TIME: 3 hours

MARKS: 100

INSTRUCTIONS:

- Answer ALL questions.
- Answer the questions in Answer Book (719-2X) that is provided.
- Write your examination number on your answer book.
- Use your own judgement where dimensions and/or details have been omitted.
- All projection and construction lines must be shown.
- Marks will be deducted for poor presentation.

QUESTION 1

Answer this question on Answer Sheet 1.

1.1	Figure 1.1 shows the front and top views of a sectioned cone in first- angle orthographic projection. Project and draw the sectioned left view in the space provided.	(6)
1.2	Figure 1.2 shows the profile of a metal casting. Using the centre lines in the space provided, draw the casting to a scale of 1:1. Show all constructions.	(6)
1.3	Figure 1.3 shows the front and top views of a machine part in first-angle orthographic projection. Using the two views, project a left view in the space provided.	(4)
1.4	Figure 1.4 shows four welding joints. Insert the correct welding symbols in the space provided.	(4)

P.T.O.

[20]

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QUESTION 2

Answer this question on Answer Sheet 2.

The figure on Answer Sheet 2 shows the front and auxiliary views of a hexagonal prism with a round hole in first-angle orthographic projection. The solid prism is intersected by cutting plane AA.

Project a sectioned top view.

Do not show hidden details.

[20]

QUESTION 3

Answer this question on Answer Sheet 3.

The figure on Answer Sheet 3 shows the front and top views of a machine part in firstangle orthographic projection. Do not copy the views but draw to a scale of 1:1 an isometric view of the part. Make A the lowest part of the drawing as indicated on the Answer Sheet.

[20]

QUESTION 4

Answer this question on Answer Sheet 4.

The figure on Answer Sheet 4 shows the incomplete front view and top view of a cylinder being intersected by another cylinder and a hexagonal prism. Draw the following:

4.1 (10)The lines of interpenetration in the front view

(10)4.2 The development of part A (Use the starting point provided.)

[20]

QUESTION 5

Answer this question on Answer Sheet 5.

The figure shows the front and top views of a simple dwelling in first-angle orthographic projection. Produce to a scale of 1:1 a neat two-point perspective drawing of the dwelling.

Hidden details are not required. NB:

Do not show wall thickness.

[20]

TOTAL: 100

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2007

METALWORK METAALWERK

First Paper : Answer Book

Eerste Vraestel : Antwoordboek

SG

719-2/1 X

METALWORK 8G: Paper 1 Question Paper & Answer Book

6 pages / bladsye



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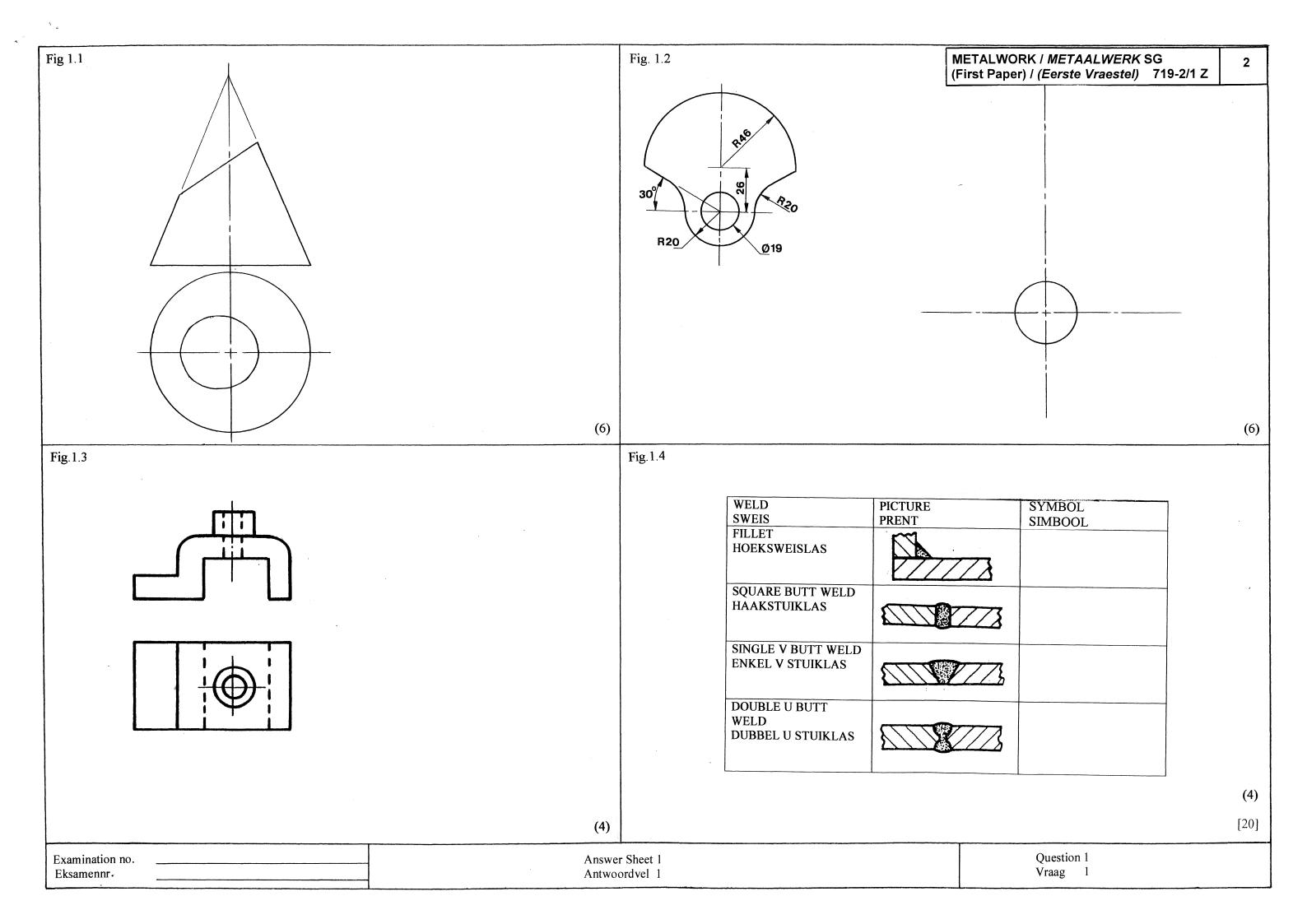
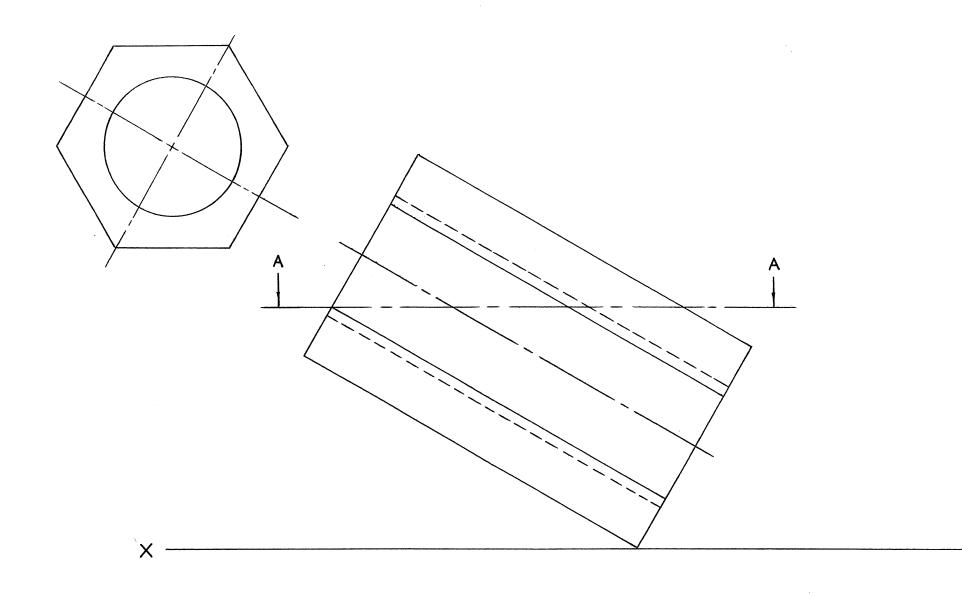


Fig. 2

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Question Two	Marks	
Vraag Twee	Punte	
Correctness		
Korrektheid	16	
linework/Neatness		
lynwerk/Netheid	2	
Accuracy		
Akuraatheid	2	
Total/Totaal	20	

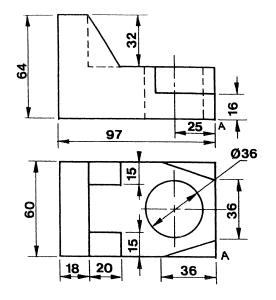
Examination no. Eksamennr,

Answer Sheet 2 Antwoordvel 2

Question 2 Vraag 2

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Question Three Vraag Drie	Marks Punte	
Correctness		
Korrektheid	12	
Insight/Insig	2	
Circles/Sirkels	4	
linework/Neatness		
lynwerk/Netheid	2	
Total/Totaal	20	

Examination no. ______Eksamennr.

Answer Sheet 3 Antwoordvel 3 Question 3 Vraag 3

