

**GAUTENG DEPARTMENT OF EDUCATION
GAUTENGSE DEPARTEMENT VAN ONDERWYS
SENIOR CERTIFICATE EXAMINATION
*SENIORSERTIFIKAAT-EKSAMEN***

**WOODWORK / HOUTWERK SG
(First Paper / *Eerste Vraestel*)**

POSSIBLE ANSWERS OCT / NOV 2006

VRAAG 1: PRISMAS - 3^{de} HOEKSE ORTOGRAFIESE

INSIG (Sonder masker)

PLASING	Aansigte in derdehoekse ortografiese projeksie geplaas. (2 punte elk)	6
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ALGEMEEN (Sonder masker)

AFMETINGS	3 Afmetings: ○ Verlengingslyne (lig) (1 x 3) ○ Maatlyne (lig) (1 x 3) ○ Pylpunte (donker) (1 x 3) ○ Maatskrywing (1 x 3) [12 ÷ 2]	6
PROJEKSIE-SIMBOOL	○ Vooraansig en linkeraansig (2) ○ Hartlyne (2)	4

AKKURAAATHEID (Met masker)

Die volgende toleransies sal van toepassing wees:

0 mm – 1 mm afwyking = Vol punte

1 mm – 3 mm afwyking = Minus 25%

Meer as 3 mm afwyking = Minus 50%

NOTA: Aansigte moet reg geplaas wees om punte te verdien.

VOORAANSIG	○ 4 vlakke: 2 elk (hoogte 1 + lengte 1) (8) ○ Vierhoek (konstruksie) (2)	10
BO-AANSIG	○ Agthoek (1 punt per lyn) (8) ○ Vierhoekige prisma: 2 vlakke x 2 (hoogte 1 + lengte 1) (4)	12
LINKERAANSIG	○ 5 vlakke: 2 elk (hoogte 1 + lengte 1)	10

	TOTAAL:	48
	÷ 3	16

QUESTION 1: PRISMS - 3rd ANGLE ORTHOGRAPHIC

PERCEPTION (Without mask)

PLACING	Views drawn in third-angle orthographic projection (2 points each)	6
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GENERAL (Without mask)

MEASUREMENTS	3 Measurements: <ul style="list-style-type: none"> ○ Extention lines (light) (1 x 3) ○ Dimension lines (light) (1 x 3) ○ Arrow heads (dark) (1 x 3) ○ Measurements (1 x 3) [12 ÷ 2] 	6
PROJECTION SYMBOL	<ul style="list-style-type: none"> ○ Front view and left view (2) ○ Centre lines (2) 	4

ACCURACY (With mask)

The following tolerances will apply:

0 mm – 1 mm deviation = Full marks

1 mm – 3 mm deviation = Minus 25%

More than 3 mm deviation = Minus 50%

NOTE: To earn any marks the views must be placed correctly.

FRONT VIEW	<ul style="list-style-type: none"> ○ 4 planes: 2 each (height 1 + length 1) (8) ○ Square (Construction) (2) 	10
TOP VIEW	<ul style="list-style-type: none"> ○ Octagon (1 point per line) (8) ○ Square prism: 2 planes x 2 (height 1 + length 1) (4) 	12
LEFT VIEW	<ul style="list-style-type: none"> ○ 5 planes: 2 each (height 1 + length 1) 	10

	TOTAL:	48
	$\div 3$	16

VRAAG 2: AFGEKNOTTE PIRAMIDE - HULPAANSIG

AKKURAA THEID (Met masker)

Die volgende toleransies sal van toepassing wees:

0 mm – 1 mm afwyking = Vol punte

1 mm – 3 mm afwyking = Minus 25%

Meer as 3 mm afwyking = Minus 50%

HULPAANSIG	<ul style="list-style-type: none"> ○ 5 vlakke: 2 elk (hoogte 1 + lengte 1) ○ Projeksie 	10
		4

	TOTAAL:	14
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QUESTION 2: TRUNCATED PYRAMID - AUXILIARY VIEW

ACCURACY (With mask)

The following tolerances will apply:

0 mm – 1 mm deviation = Full marks

1 mm – 3 mm deviation = Minus 25%

More than 3 mm deviation = Minus 50%

AUXILIARY VIEW	<ul style="list-style-type: none"> ○ 5 planes: 2 each (height 1 + length 1) ○ Projection 	10
		4

	TOTAL:	14
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VRAAG 3: VOEG - ISOMETRIES

INSIG (Sonder masker)

PLASING	1. Plasing t.o.v. vraag: $A = 4$ $B = 4$ 2. Los van mekaar, gereed om te voeg op isometriese asse = 4	12
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ALGEMEEN (Sonder masker)

LYNE	1. Vier tipes lyne: o Randlyne (donker) (4) o Kort-strepielyne (lig) (4) o Projeksielyne (baie lig) (4)	12
VERSTEEKTE BESONDERHEDE VAN A	2. 14 lyne: 2 punte elk	28

AKKURAATHEID (Met masker)

Die volgende toleransies sal van toepassing wees:

0 mm – 1 mm afwyking = Vol punte

1 mm – 3 mm afwyking = Minus 25%

Meer as 3 mm afwyking = Minus 50%

DEEL A	o 5 vlakke: 8 elk (hoogte 4 + lengte 4)	40
DEEL B	o 6 vlakke: 8 elk (hoogte 4 + lengte 4)	48

TOTAAL:	140
$\div 4$	35

QUESTION 3: JOINT - ISOMETRIC

PERCEPTION (Without mask)

PLACING	1. Placing according to the question: A = 4 B = 4 2. Apart from each other and ready to joint on the isometric axes = 4	12
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GENERAL (Without mask)

LINES	1. Four types of lines: ○ Outline (dark) (4) ○ Dashed lines (light) (4) ○ Projection lines (very light) (4)	12
HIDDEN DETAIL OF A	2. 14 lines: 2 marks each	28

ACCURACY (With mask)

The following tolerances will apply:

0 mm – 1 mm deviation = Full marks

1 mm – 3 mm deviation = Minus 25%

More than 3 mm deviation = Minus 50%

PART A	○ 5 planes: 8 each (height 4 + length 4)	40
PART B	○ 6 planes: 8 each (height 4 + length 4)	48

TOTAL:	140
$\div 4$	35

VRAAG 4: KABINET - ORTOGRAFIES

INSIG (Sonder masker)

TWEE AANSIGTE GETEKEN	Korrekte plasing van:		
	1. Vooraansig	(6)	12
2. Deursnee-linkeraansig (snitte moet getoon wees)	(6)		

ALGEMEEN (Sonder masker)

LYNE	1. Twee tipes lyne: <ul style="list-style-type: none"> ○ Arseerlyne (baie lig) = 4 ○ Snylyn (donker en lig) = 2 	6
ARSERING: DEURSNEE- LINKERAANSIG	2. Arsering van korrekte vlakke: <ul style="list-style-type: none"> ○ 13 vlakke 2 punte elk 	26

AKKURAA THEID (Met masker)

Die volgende toleransies sal van toepassing wees:

0 mm – 1 mm afwyking = Vol punte

1 mm – 3 mm afwyking = Minus 25%

Meer as 3 mm afwyking = Minus 50%

VOORAANSIG	○ 14 vlakke: 4 elk (hoogte 2 + lengte 2)	56
DEURSNEE- LINKERAANSIG	○ 20 vlakke: 4 elk (hoogte 2 + lengte 2)	40

TOTAAL:	140
$\div 4$	35

QUESTION 4: CABINET - ORTHOGRAPHIC

P E R C E P T I O N (Without mask)

THREE VIEWS DRAWN	Correct placing of: 1. Front view (6) 2. Sectional left view (sections should be shown) (6)	12
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G E N E R A L (Without mask)

LINES	1. Two types of lines: ○ Projection lines (light) = 4 ○ Cutting line (dark and light) = 2	6
HATCHING: SECTIONAL LEFT VIEW	2. Hatching of correct planes: ○ 13 planes 2 marks each	26

A C C U R A C Y (With mask)

The following tolerances will apply:

0 mm – 1 mm deviation = Full marks

1 mm – 3 mm deviation = Minus 25%

More than 3 mm deviation = Minus 50%

FRONT VIEW	○ 14 planes: 4 each (height 2 + length 2)	56
SECTIONAL LEFT VIEW	○ 20 planes: 4 each (height 2 + length 2)	40

TOTAL:	140
$\div 4$	35