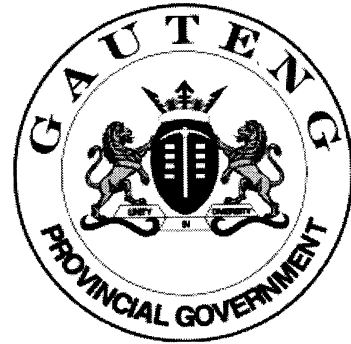


GAUTENG DEPARTMENT OF EDUCATION  
*GAUTENGSE DEPARTEMENT VAN ONDERWYS*



SENIOR CERTIFICATE EXAMINATION  
*SENIORSERTIFIKAAT-EKSAMEN*

OCTOBER / NOVEMBER  
*OKTOBER / NOVEMBER*

2006

TECHNICAL DRAWING  
*TEGNIесе TEKENE*

(Second Paper : Drawings)  
*(Tweede Vraestel : Tekene)*

HG

711-1/2

Cover + 6 pages  
*Voorblad + 6 bladsye*







**QUESTION 2**

ANSWER THIS QUESTION ON ANSWER SHEET 2.

Figure 2 shows in First-angle Orthographic Projection the front and top views of a SHACKLE AND PIN.

Produce to SCALE 1:1 a sectioned isometric view on cutting plane N-N.  
Make use of the given centre lines.

Do not show hidden detail.

Presentation

33		
2		
<b>TOTAL</b>	<b>35</b>	

**VRAAG 2**

BEANTWOORD HIERDIE VRAAG OP ANTWOORDVEL 2.

Figuur 2 toon in Eerstehoekse Ortografiese Projeksie die voor- en boaansigte van BOEI EN PEN.

Teken volgens SKAAL 1:1 'n deursnee- isometriese aansig op snyvlak N-N.  
Maak gebruik van die gegewe hartlyne.

Moet nie verborge detail toon nie.

Aanbieding

33		
2		
<b>TOTAAL</b>	<b>35</b>	

TECHNICAL DRAWING 711-1/2 U HIGHER GRADE

TEGNIËSE TEKENE 711-1/2 U HOËR GRAAD

4

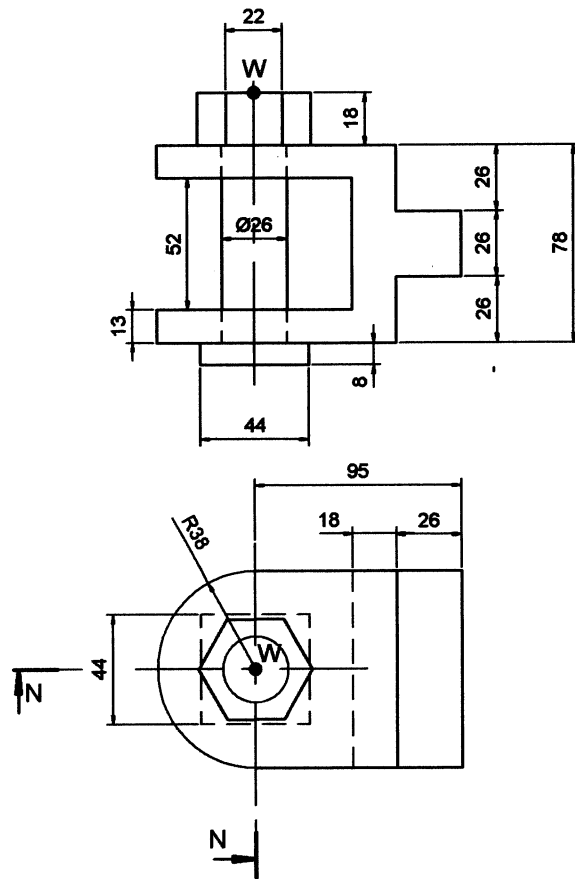
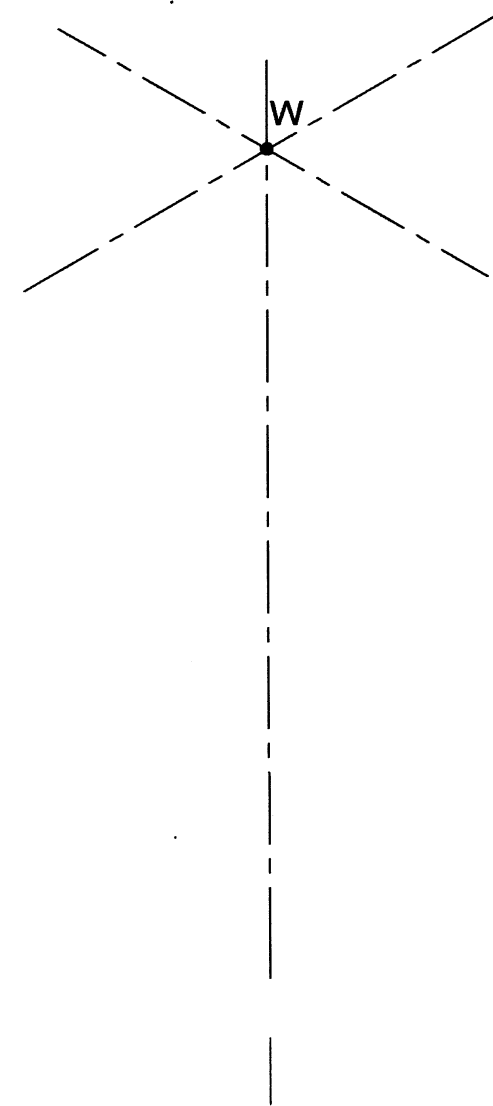


FIGURE 2 / FIGUUR 2



START AT POINT W

BEGIN BY PUNT W

EXAMINATION NUMBER / EKSAMENNUMMER

A	B								
---	---	--	--	--	--	--	--	--	--

**QUESTION 2 / VRAAG 2**

**ANSWER SHEET 2**

**ANTWOORDVEL 2**

**QUESTION 3**  
ANSWER THIS QUESTION ON ANSWER SHEET 3.

Make use of the given diagram on answer sheet 3 to produce a two-point perspective drawing of a factory.

DO NOT SHOW HIDDEN DETAIL.

Presentation

38

2

TOTAL

40

**VRAAG 3**  
BEANTWOORD HIERDIE VRAAG OP ANTWOORDVEL 3

Deur gebruik te maak van die gegewe diagram op antwoordvel 3 teken 'n tweepuntperspektief-tekening van 'n fabriek.

MOET NIE VERBORGE DETAIL TOON NIE.  
Aanbieding

38

2

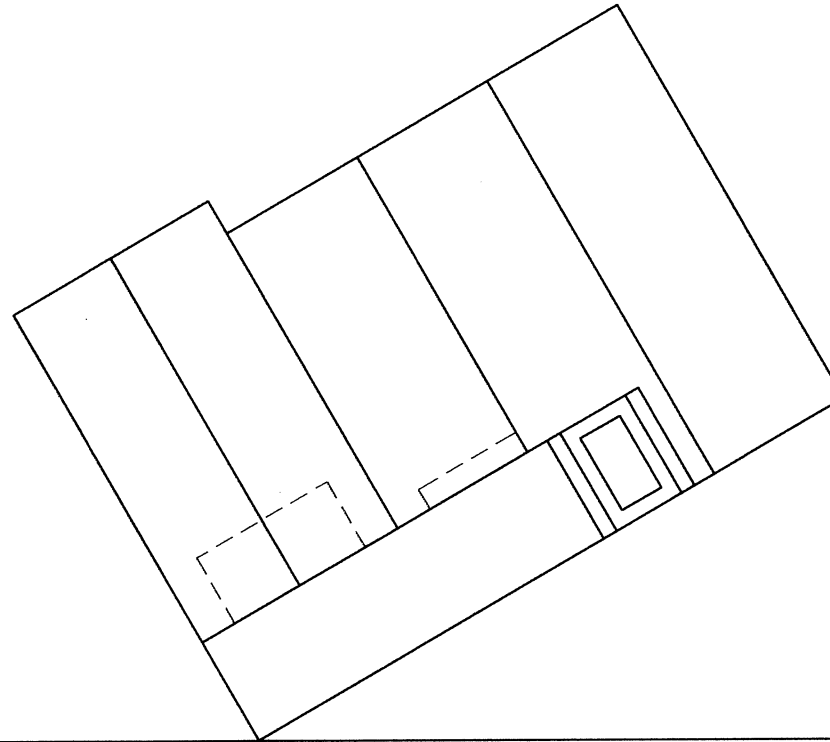
TOTAAL

40

TECHNICAL DRAWING 711-1/2 U HIGHER GRADE

TEGNIесе TEKENE 711-1/2 U HOER GRAAD

5

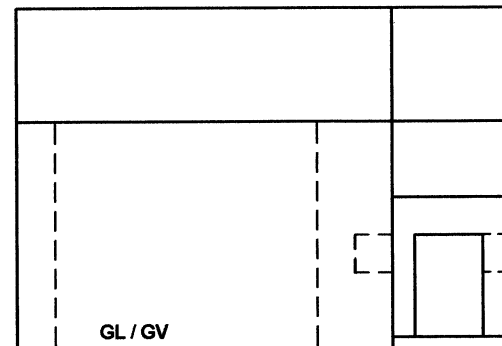


PP = PICTURE PLANE  
HL = HORIZON LINE  
SP = STATION POINT  
GL = GROUND LINE

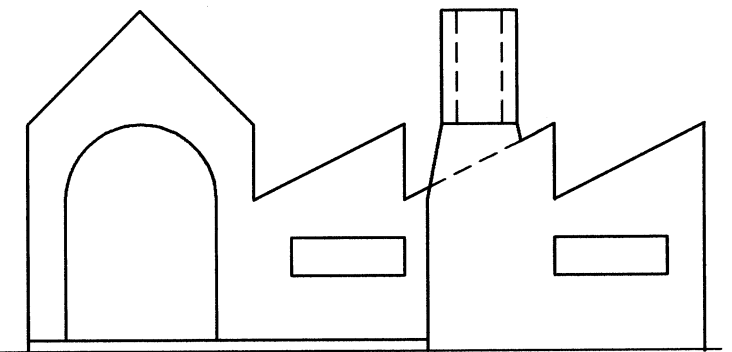
PV = PRENTVLAK  
HL = HORIZONLYN  
SP = STAANPUNT  
GV = GRONDVLAK

PP / PV

HL



GL / GV



SP

EXAMINATION NUMBER / EKSAMENNOMMER

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

**QUESTION 3 / VRAAG 3**

**ANSWER SHEET 3**

**ANTWOORDVEL 3**

**QUESTION 4**

ANSWER THIS QUESTION ON ANSWER SHEET 4. The Diagram Sheet for question 4 shows the components in First-Angle Orthographic Projection of a PRESSURE JOINT as well as a key to how the PRESSURE JOINT is to be assembled.

4.1 Draw to SCALE 2:1 a full sectional front view on cutting plane Q-Q of the assembled components. Do not show hidden detail.

4.2 Insert 5 dimensions on the drawing.

4.3 Show the projection system for Third Angle Orthographic Projection.

4.4 Print a Title and Scale.

( 100 )

**VRAAG 4**

BEANTWOORD DIE VRAAG OP ANTWOORDVEL 4.

Diagramvel vir vraag 4 toon die komponente van 'n DRUKKOPPELLING in Eerstehoekse Ortografiese Projeksie asook 'n sleutel van hoe die komponente van die DRUKKOPPELLING saamgestel moet word.

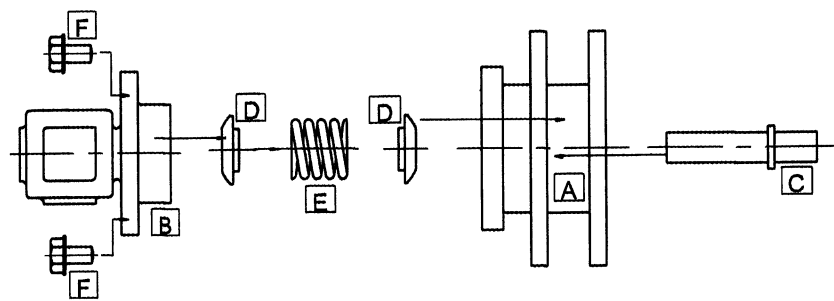
4.1 Teken volgens SKAAL 2:1 'n volsnit-vooraansig op snyvlak Q-Q van die saamgestelde komponente. Moet nie verborge detail toon nie.

4.2 Voeg 5 afmetings by die tekening.

4.3 Toon die projeksiesisteem vir Derdehoekse Ortografiese Projeksie.

4.4 Drukskrif 'n Titel en Skaal.

( 100 )



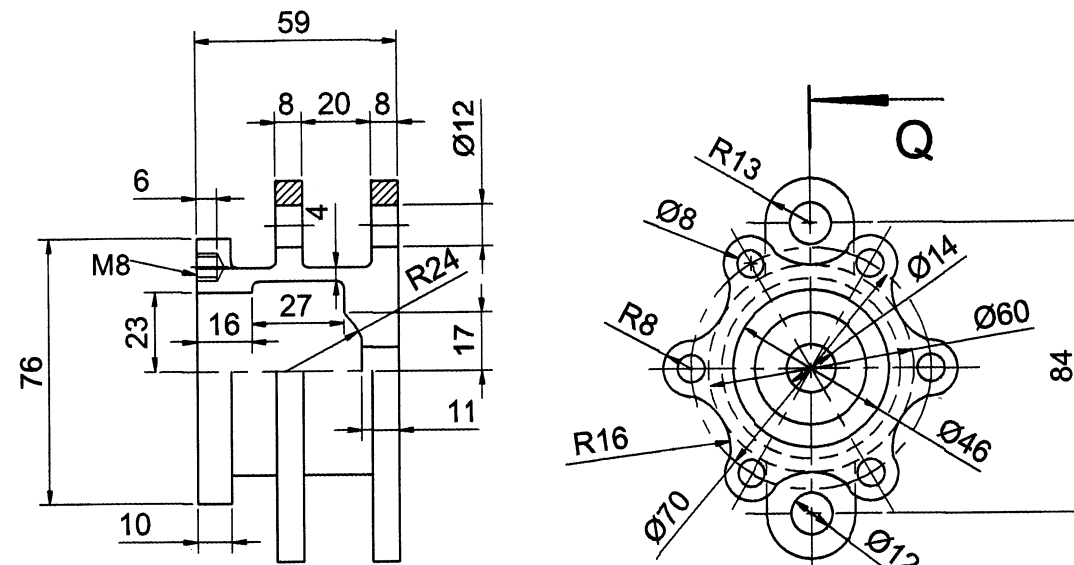
**ASSEMBLY KEY**

**SAMESTELLING-SLEUTEL**

TECHNICAL DRAWING 711-1/2 U HIGHER GRADE

TEGNIËSE TEKENE 711-1/2 U HOËR GRAAD

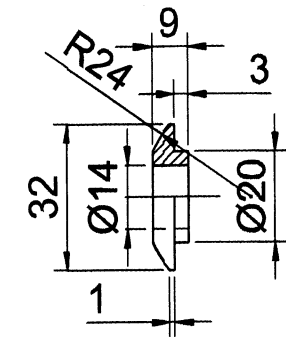
6



**BODY**  
[1 - OFF]

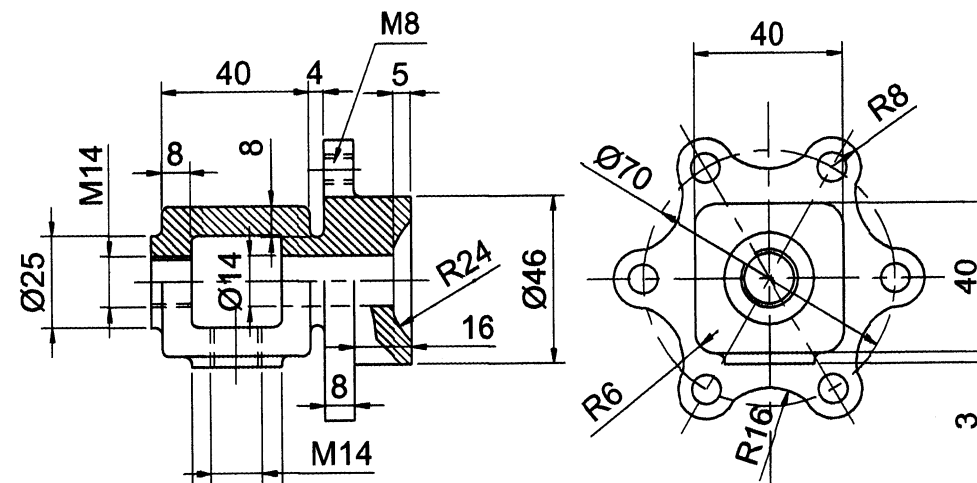
**HULSEL**  
[1 - VAN]

A



**COLLAR** **KRAAG**  
[2 - OFF] [2 - VAN]

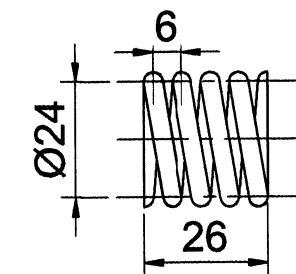
D



**HEAD**  
[1 - OFF]

**KOP**  
[1 - VAN]

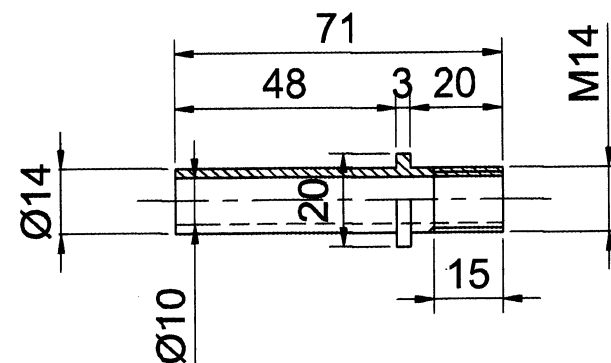
B



Ø 2 MM MATERIAL  
Ø 2 MM-MATERIAAL

**SPRING** **VEER**  
[1 - OFF] [1 - VAN]

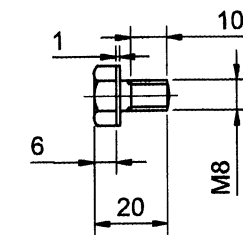
E



**NIPPLE**  
[1 - OFF]

**SMEERNIPPEL**  
[1 - VAN]

C



**BOLT** **MOER**  
[6 - OFF] [6 - VAN]

F

EXAMINATION NUMBER / EKSAMENNOMMER

Grid for examination number entry.

**DIAGRAM SHEET FOR QUESTION 4**  
**DIAGRAMVEL VIR VRAAG 4**

TECHNICAL DRAWING 711-1/2 U HIGHER GRADE

7

TEGNIËSE TEKENE 711-1/2 U HOËR GRAAD

MARK ALLOCATION  
PUNTETOEKENNING

BODY HULSEL	24		
SECTIONING ARSERING	5		
COLLAR KRAAG	12		
SECTIONING ARSERING	2		
SPRING VEER	6		
SECTIONING ARSERING	2		
HEAD & BOLTS KOP & ROUTE	20		
SECTIONING ARSERING	7		
NIPPLE VEER	7		
SECTIONING ARSERING	2		
SUBTOTAL SUBTOTAAL	87		
DIMENSIONS AFMETINGS	3		
PROJECTION SYSTEM PROJEKSIESISTEEM	2		
TITLE & SCALE TITEL & SKAAL	1		
PRESENTATION AANBIEDING	3		
ASSEMBLY SAMESTELLING	4		
SUBTOTAL SUBTOTAAL	13		
TOTAL TOTAAL	100		

EXAMINATION NUMBER / EKSAMENNUMMER

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

**QUESTION 4 / VRAAG 4**

**ANSWER SHEET 4**

**ANTWOORDVEL 4**

END / EINDE