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**SA EXAM  
PAPERS**



# basic education

Department:  
Basic Education  
**REPUBLIC OF SOUTH AFRICA**

## **NATIONAL SENIOR CERTIFICATE**

**GRADE 12**

**ENGINEERING GRAPHICS AND DESIGN P2**

**EXEMPLAR 2014**

**MEMORANDUM**

**MARKS: 100**

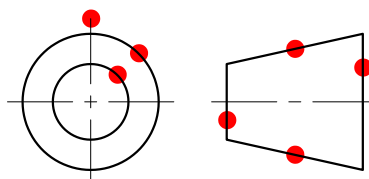
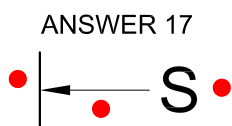
**This memorandum consists of 6 pages.**

ANSWERS		
1	2013-09-02	1
2	PRETORIA	1
3	RUBBER	1
4	AFROX	1
5	ME21.dwg	1
6	SCALE 1 : 1	1
7	SECTIONAL FRONT VIEW	1
8	FILLET	1
9	FLAT SURFACE	1
10	152	1
11	8	1
12	D. 14                      E. Ø 24                      F. Ø 32	3
13	A      ALL-ROUND WELDING	1
	B      SQUARE WELDING	1
	C      FLAME/GAS WELD	1
14	SECURE HAND WHEEL TO SHAFT	1
15	24	1
16	HATCHING: [direction 1, spacing 1, thread 1]	3
17		3
18		4
TOTAL		29

TOTAL: 29

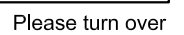
ANSWER 18

● FREEHAND



SYMBOL

PAPER 2 QUESTION 1  
 GRADE 12  
 EXEMPLAR 2014  
 MEMORANDUM



CIRCLE CONSTRUCTION 4✓✓

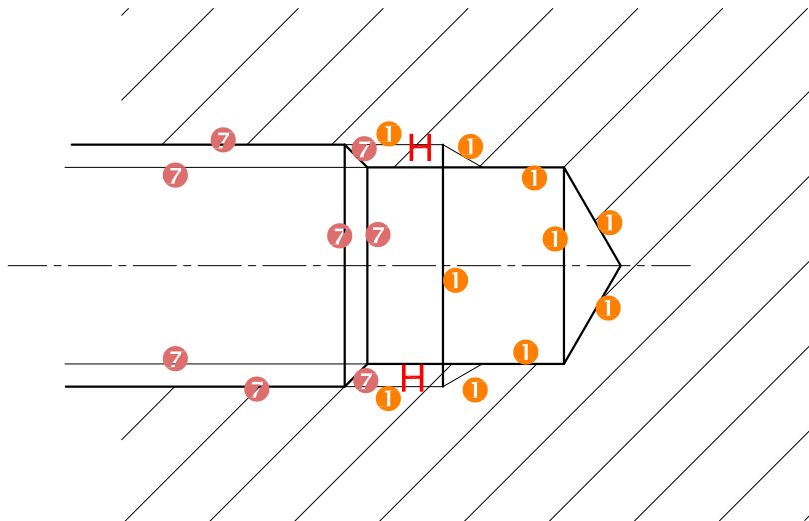
CORRECT PLACEMENT ON POINT P 1✓

HATCHING CORRECTLY SHOWN 6✓

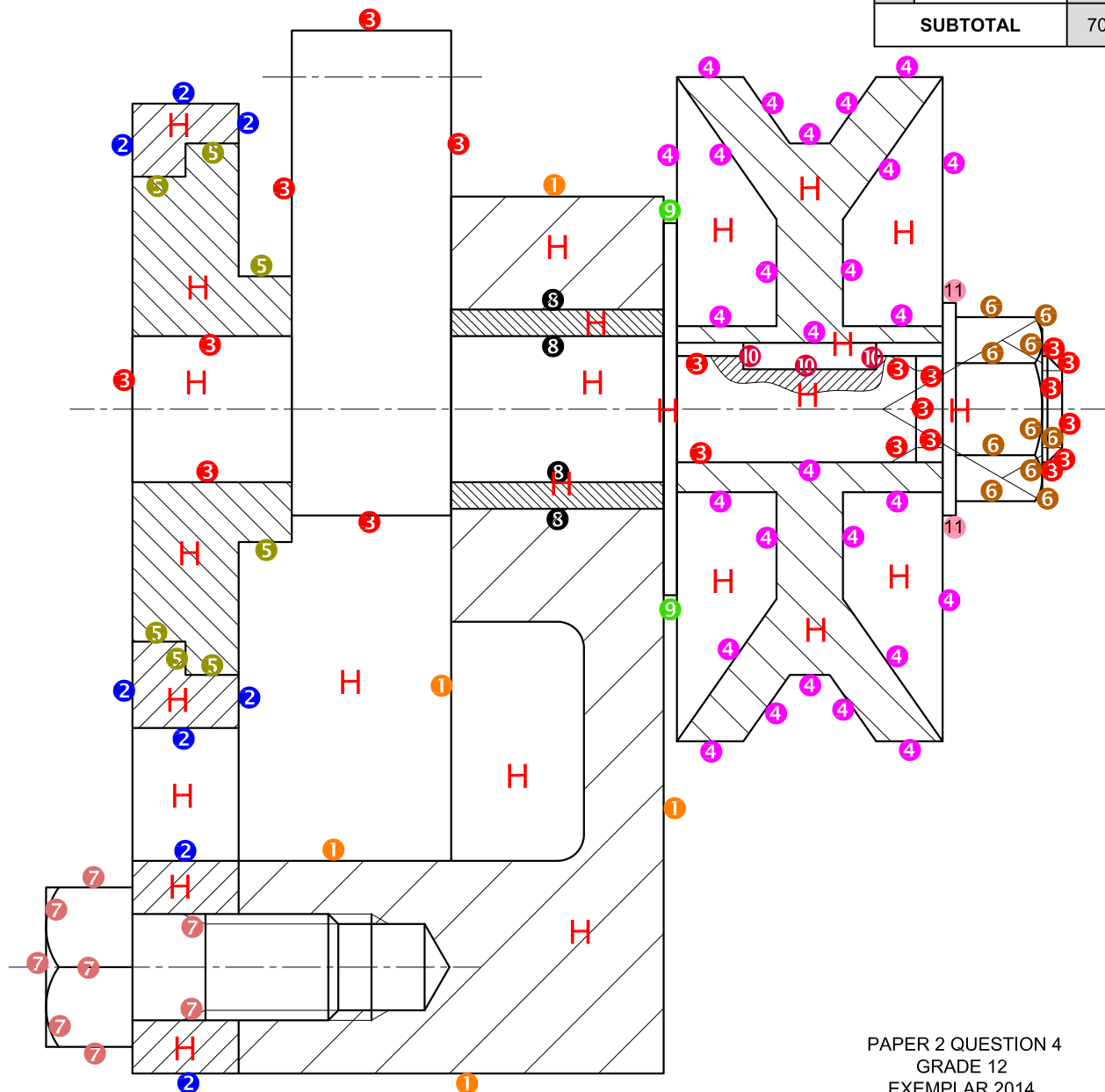
P

PAPER 2 QUESTION 3  
GRADE 12  
EXEMPLAR 2014  
MEMORANDUM

ASSESSMENT CRITERIA		
1.	AUX. VIEW + PLACING	4
2.	ISOMETRIC + NON-ISOMETRIC LINES	13
3.	ISOMETRIC CIRCLES	4
4.	CIRCLE CONSTRUCTION	2
5.	SECTIONED SURFACES	9
6.	HATCHING	4
TOTAL		36


**ASSESSMENT  
CRITERIA**
**SECTIONAL FRONT  
VIEW**

1	BRACKET	7 $\frac{1}{2}$
2	SIDE PLATE	4
3	CAM SHAFT	10
4	BELT PULLEY	13 $\frac{1}{2}$
5	COLLAR	3 $\frac{1}{2}$
6	M16 NUT	5
7	M16 BOLT	8
8	BUSH	2
9	SPACER	1
10	KEY	1 $\frac{1}{2}$
11	WASHER	1
H	HATCHING	13 $\frac{1}{2}$
<b>SUBTOTAL</b>		70 $\frac{1}{2}$



PAPER 2 QUESTION 4  
GRADE 12  
EXEMPLAR 2014  
MEMORANDUM

ASSESSMENT CRITERIA		
LEFT VIEW		
1	SIDE PLATE	5
2	BRACKET	2
3	COLLAR	$\frac{1}{2}$
4	BOLT	1
5	CAM SHAFT	2
6	PULLEY	1
SUBTOTAL		$11\frac{1}{2}$
GENERAL		
1	CENTRE LINES	8
2	ASSEMBLY	5
SUBTOTAL		13
TOTAL		95

