

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P2

FEBRUARY/MARCH 2017

MEMORANDUM

MARKS: 100

This memorandum consists of 5 pages.

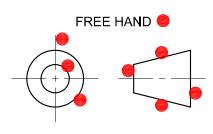
ANSWERS				
1	GAS REGULATOR	1		
2	www.theonegas.co.za	1		
3	MILLING	1		
4	AUTOCAD 2016	1		
5	2015-10-31	1		
6	SOON	1		
7	RUBBER	1		
8	FULL SECTIONED FRONT VIEW	1		
9	FILLET	1		
10	B: Ø 17.6 C: 125 D: 75	3		
11	75°	1		
12	THIN PART / RUBBER	1		
13	PART SECTIONING	1		
14	KNURLING	1		
15	CAP	1		
16	8	1		
17	TO KEEP THE RUBBER PIPE IN POSITION	2		
18		3		
19	See below	3		
20		4		
TOTAL				



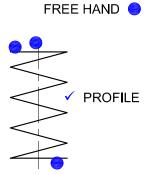




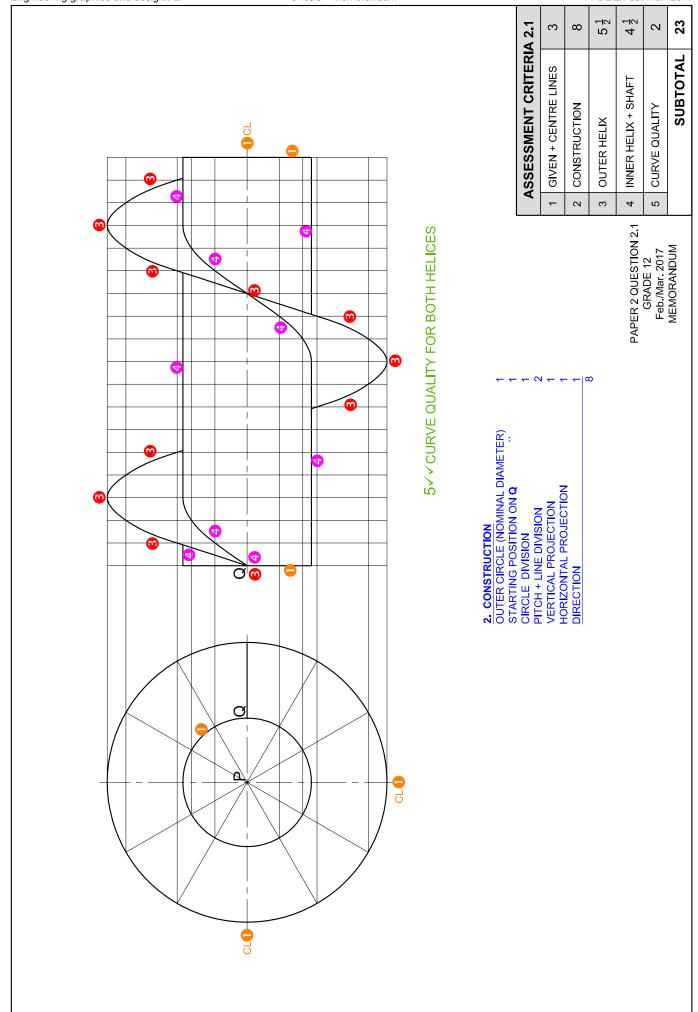
ANSWER 20: PROJECTION SYMBOL

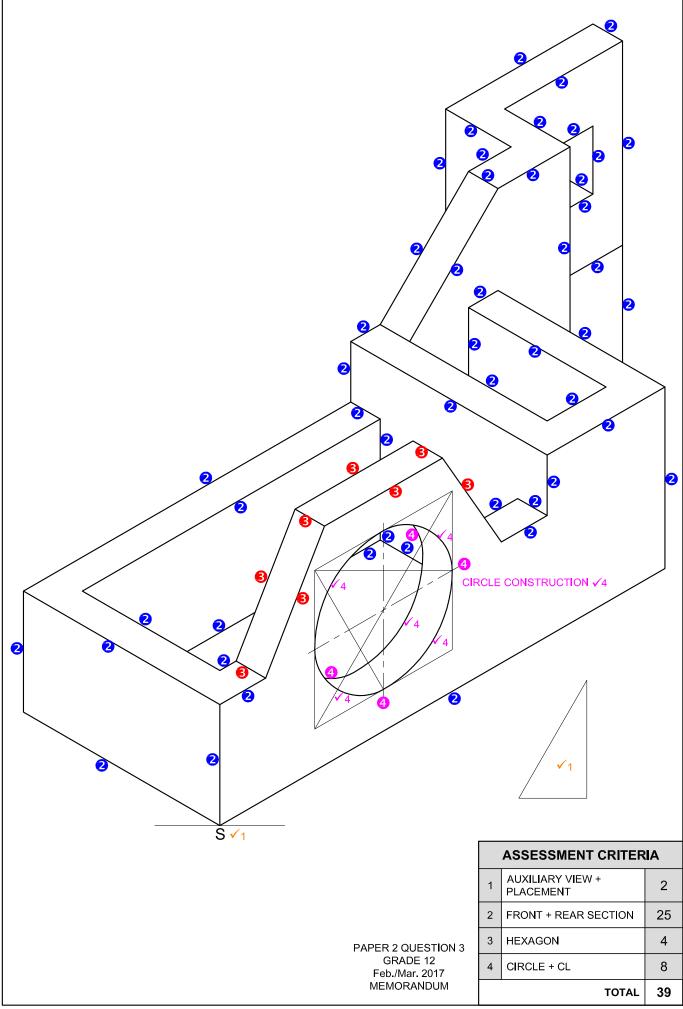


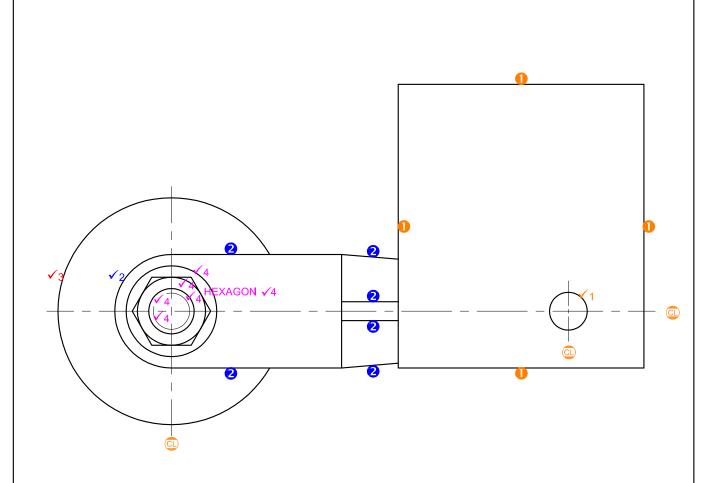
ANSWER 19: CONVENTION - COIL SPRING



PAPER 2 QUESTION 1 GRADE 12 Feb./Mar. 2017 MEMORANDUM



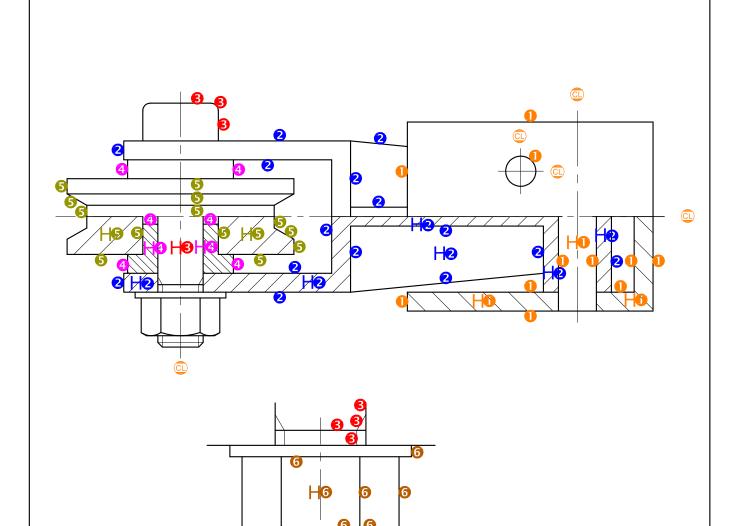




1 MARK FOR EVERY COMPONENT CORRECTLY ASSEMBLED (10 PARTS - 1) = 9

PAPER 2 QUESTION 4 GRADE 12 Feb./Mar. 2017 MEMORANDUM

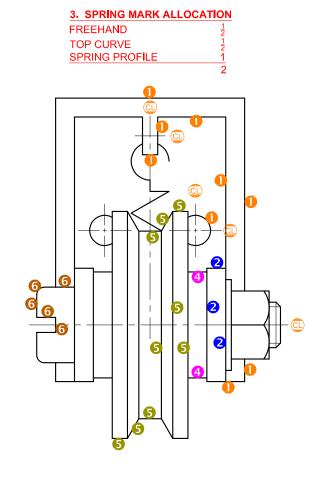
ASSESSMENT CRITERIA				
FRONT VIEW				
1	HOUSING + PIN	3		
2	FORK	4		
3	PULLEY	1		
4	M12 BOLT + WASHER + M12 NUT	6		
	SUBTOTAL	14		

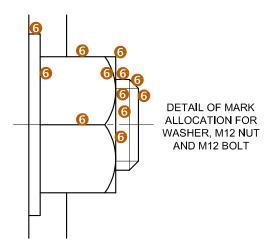


DETAIL OF MARK ALLOCATION FOR WASHER, M12 NUT AND M12 BOLT

> PAPER 2 QUESTION 4 GRADE 12 Feb./Mar. 2017 MEMORANDUM

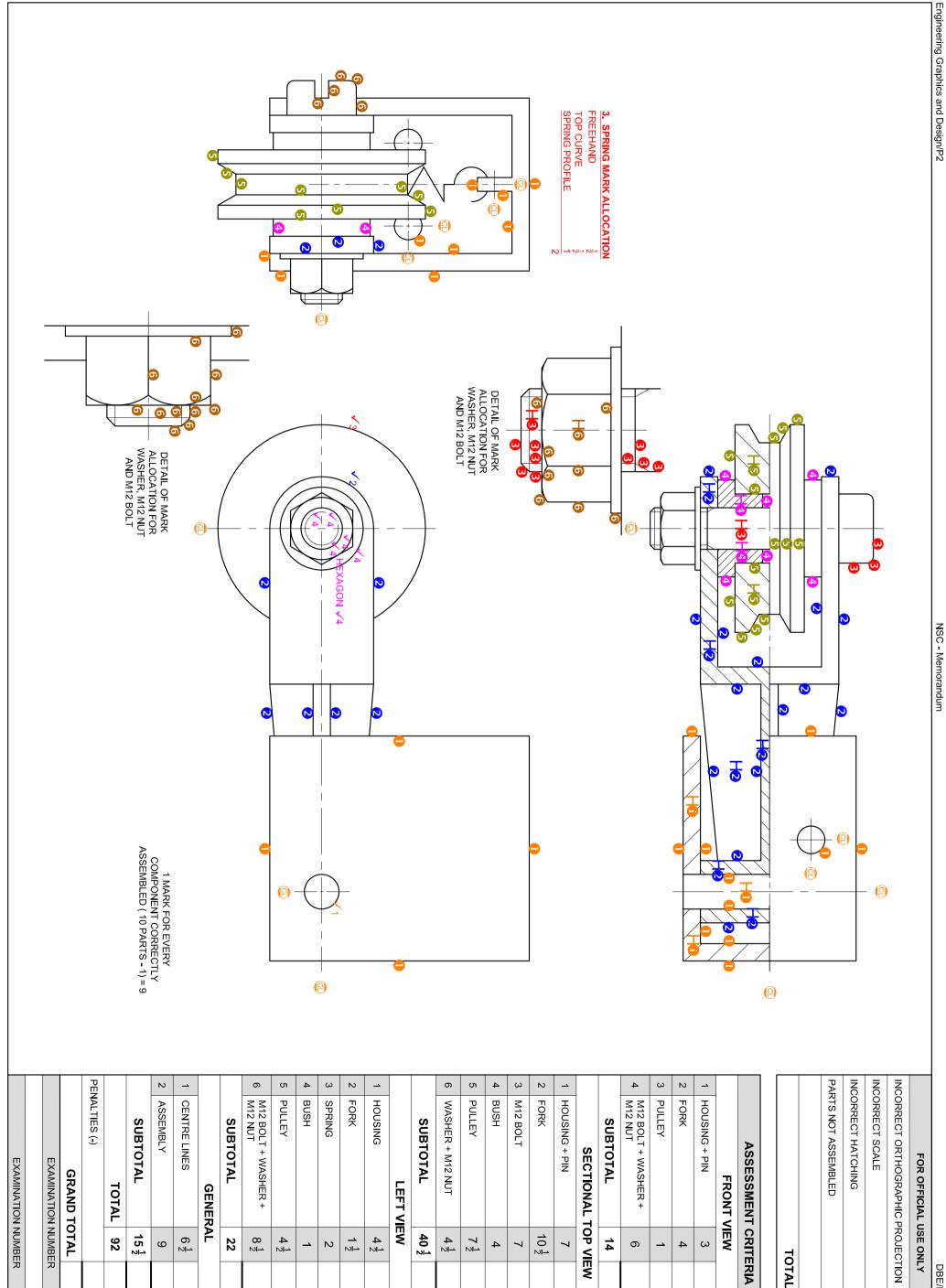
	ASSESSMENT CRITERIA				
	SECTIONAL TOP VIEW				
1	HOUSING + PIN	7			
2	FORK	10 ½			
3	M12 BOLT	7			
4	BUSH	4			
5	PULLEY	7 ½			
6	WASHER + M12 NUT	4 ½			
	SUBTOTAL	40 ½			





PAPER 2 QUESTION 4 GRADE 12 Feb./Mar. 2017 MEMORANDUM

	ASSESSMENT CRITERIA				
	LEFT VIEW				
1	HOUSING	4 ½			
2	FORK	1 ½			
3	SPRING	2			
4	BUSH	1			
5	PULLEY	4 ½			
6	M12 BOLT + WASHER + M12 NUT	8 1 2			
SUBTOTAL		22			



 $40\frac{1}{2}$

4 2

7 1/2

4

 $10\frac{1}{2}$

7

14

6

4 ယ

TOTAL

 $15\frac{1}{2}$

6 1

9

8 21-1

22

4 2 1

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2

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4 1/2

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NSC - Memorandum