



education

Department:
Education
REPUBLIC OF SOUTH AFRICA

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P2

NOVEMBER 2009

MEMORANDUM

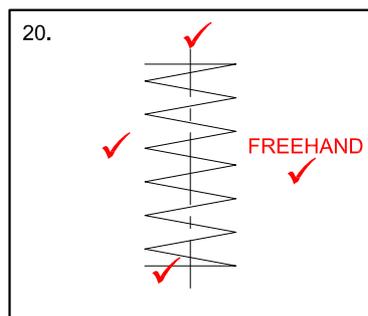
MARKS: 200

This memorandum consists of 5 pages.

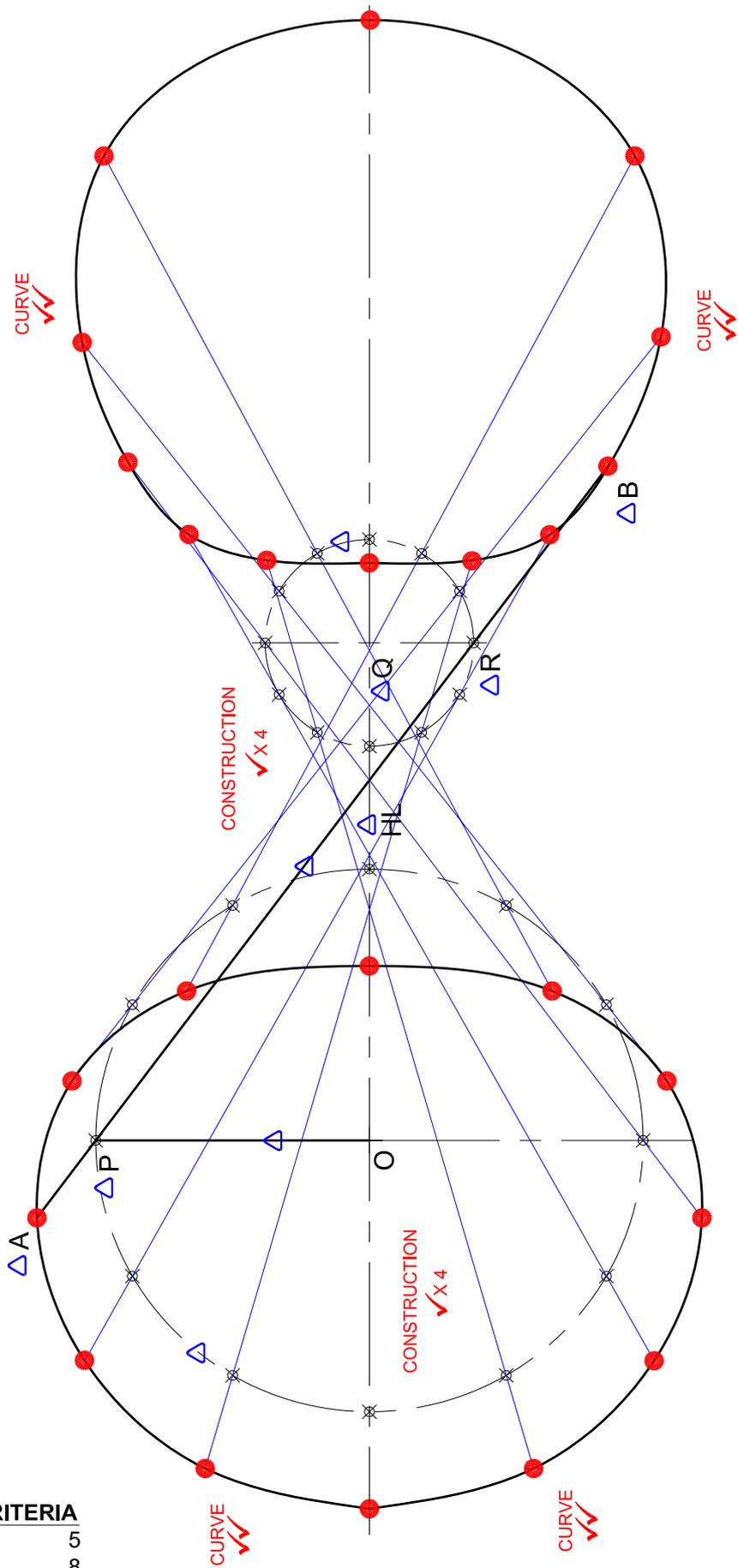
ANSWERS

1	12/05/2009	1
2	CARLA	1
3	DIAPHRAGM REGULATOR	1
4	1:2	1
5	BRASS	1
6	5	1
7	10	1
8	3rd ANGLE ORTHOGRAPHIC PROJECTION	1
9	RIGHT VIEW	1
10	TOP VIEW	1
11	Ø60	1
12	Ø10	1
13	A: Ø14 B: Ø30 C: Ø64 D:Ø20 E: M12 F: 107	6
14	CUTTING PLANE	1
15	DIMENSION	1
16	PART SECTION	1
17	NO MACHINING	2
18		4
19	0,25	1
20	34,25	2

TOTAL: 30



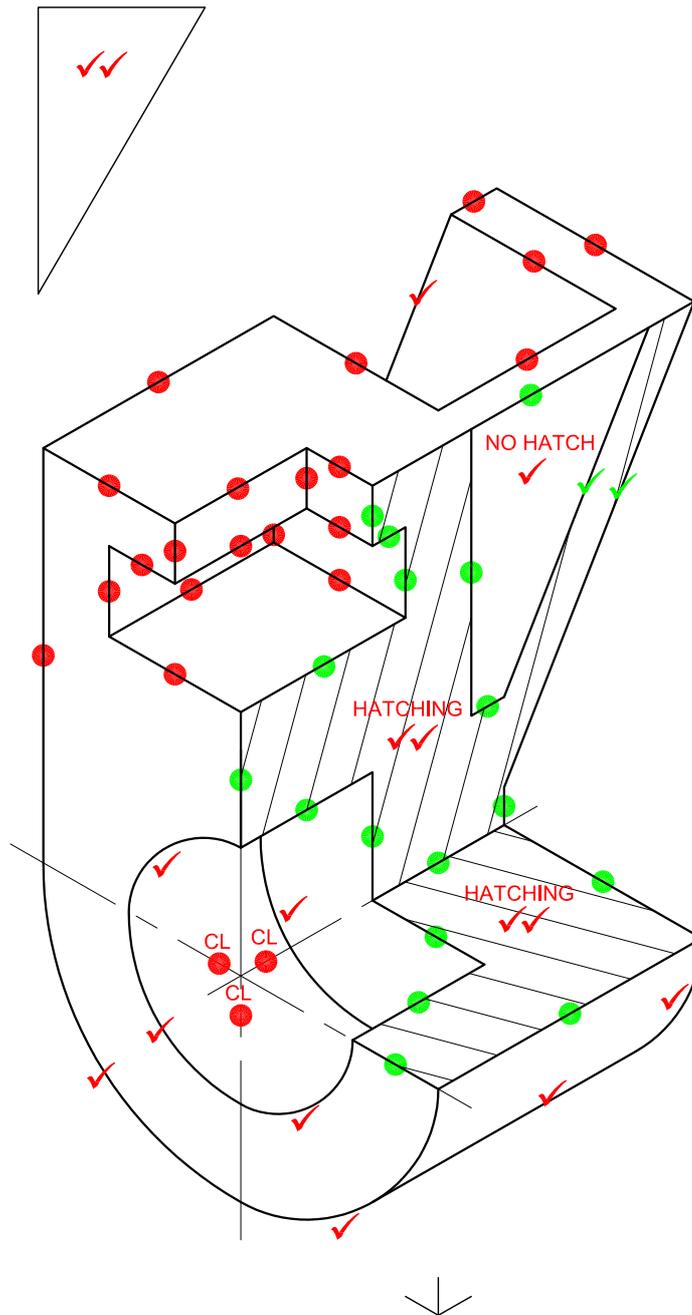
PAPER 2 QUESTION 1
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ASSESSMENT CRITERIA

GIVEN + LABELS	5
CONSTRUCTION	8
LOCUS A + CURVE	10
LOCUS B + CURVE	10
TOTAL	33

PAPER 2 QUESTION 2
GRADE 12 NOVEMBER 2009
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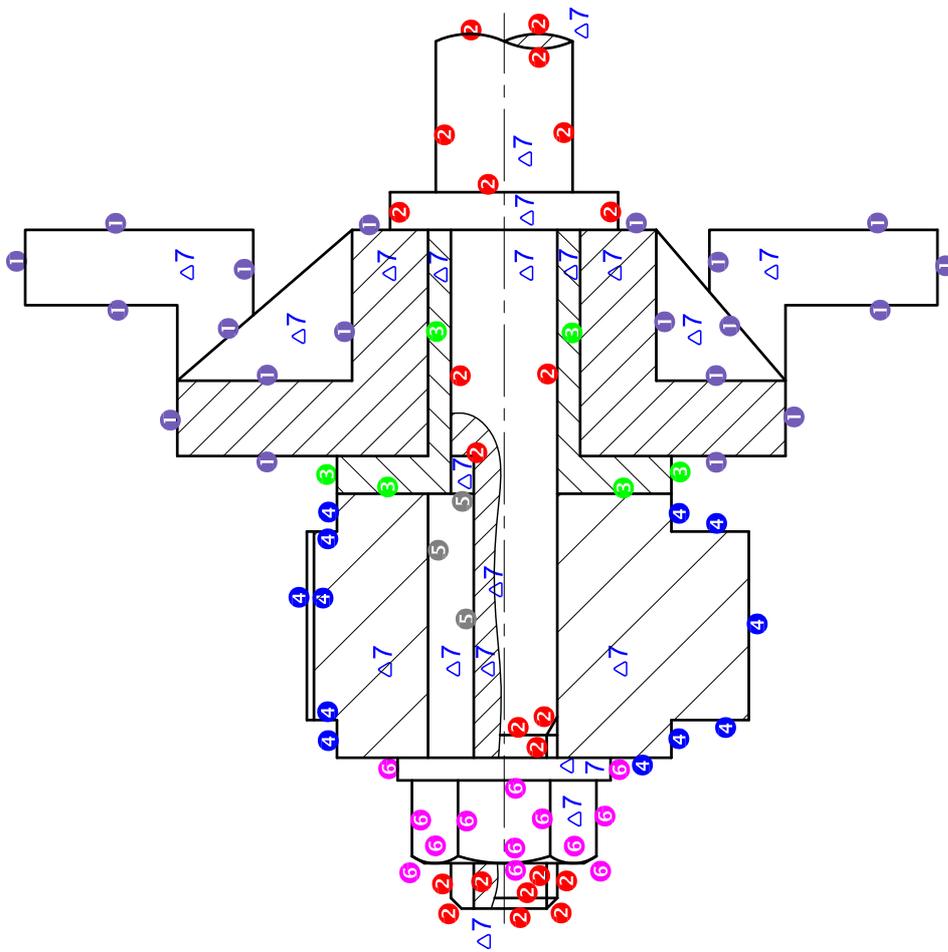


CIRCLE CONSTRUCTION 5

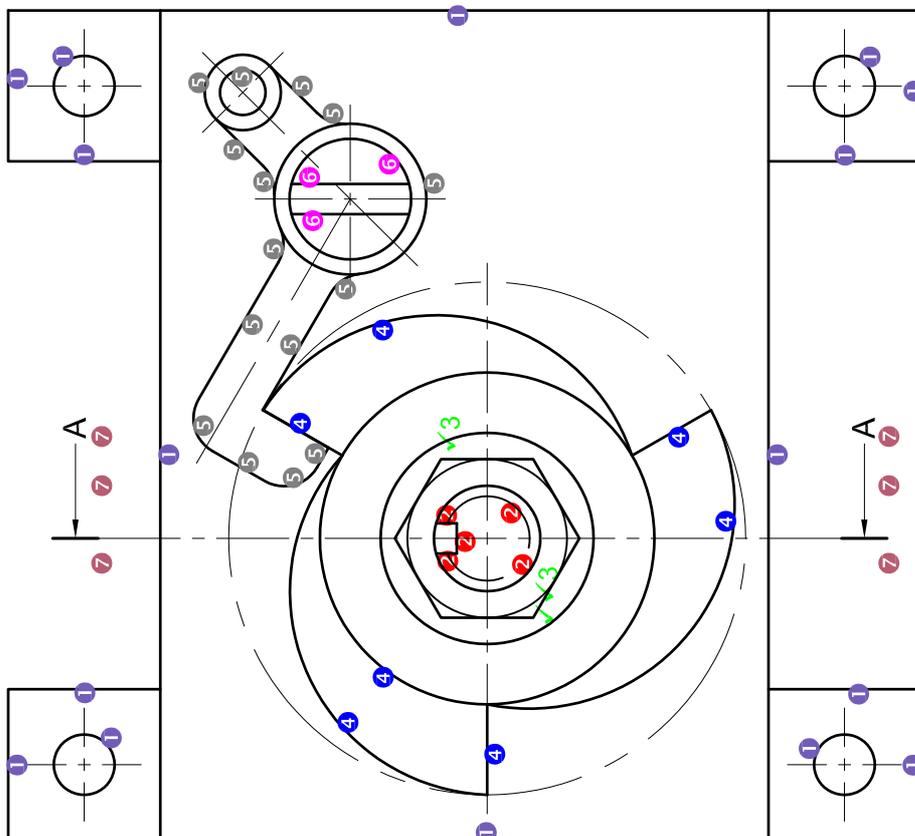
ASSESSMENT CRITERIA

CONSTRUCTION + AUXILIARY + B	= 8
ISO CIRCLES + CENTRE LINES	= 8½
ISO + NON-ISO LINES	= 12
SECTIONED SURFACES	= 10½
HATCHING	= 5
TOTAL	= 44

PAPER 2 QUESTION 3
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SECTIONAL VIEW	
1. BASE	10
2. SHAFT	11
3. BUSH	3
4. RATCHET	6
5. KEY	1½
6. WASHER + M14 NUT	6½
7. HATCHING	10½



FRONT VIEW	
1. BASE	8
2. SHAFT	2½
3. WASHER + M14 NUT	3
4. RATCHET	3½
5. RATCHET ARM	7½
6. PIN	1½
7. CUTTING PLANE A-A	3
CENTRE LINES	7½
ASSEMBLY	6
3rd ANGLE	2
TOTAL: 93	

PAPER 2 QUESTION 4
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