

SA's Leading Past Year

Exam Paper Portal



You have Downloaded, yet Another Great
Resource to assist you with your Studies 😊

Thank You for Supporting SA Exam Papers

Your Leading Past Year Exam Paper Resource Portal

Visit us @ www.saexampapers.co.za



**SA EXAM
PAPERS**



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P2

FEBRUARY/MARCH 2015

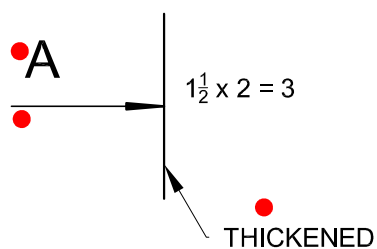
MEMORANDUM

MARKS: 100

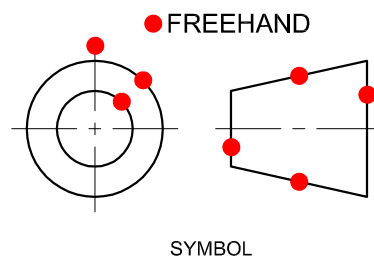
This memorandum consists of 6 pages.

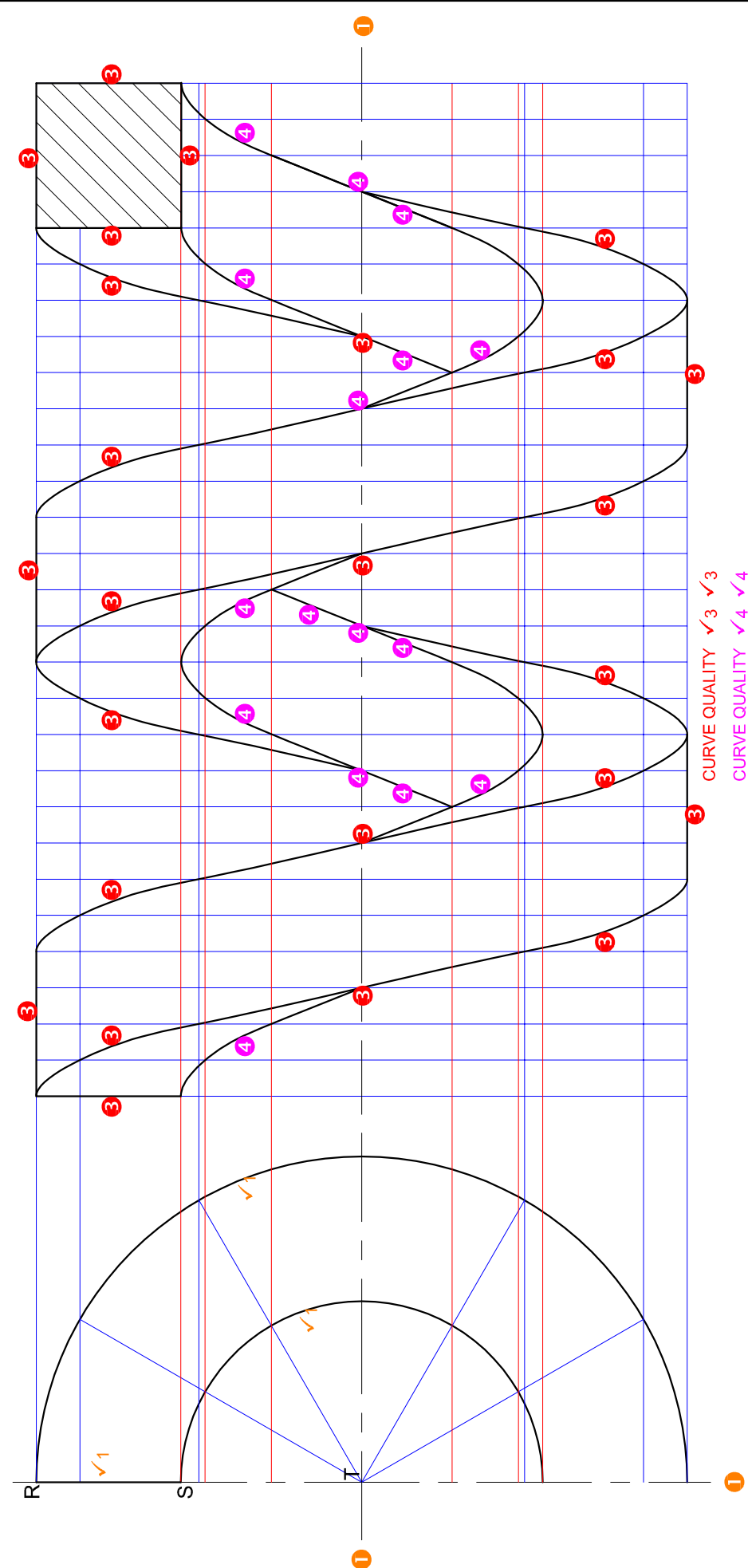
ANSWERS		
1	2014-03-03	1
2	BOX AND GLAND	1
3	SCALE 1 : 2	1
4	RUBBER	1
5	2014-02-03	1
6	BG-15/4	1
7	RIGHT VIEW	1
8	HALF SECTION	1
9	WASHER	1
10	STUD	1
11	SPOTFACE	1
12	S-BREAK	1
13	7	1
14	A - 100 B - Ø12	2
15	C - $21 - 3 = 18$ D - $64 + (32-8) = 88$	4
16	160.25	2
17	159.7	2
18		3
19		4
TOTAL		30

ANSWER 18



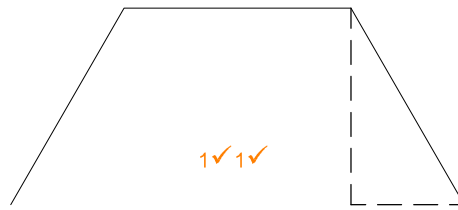
ANSWER 19



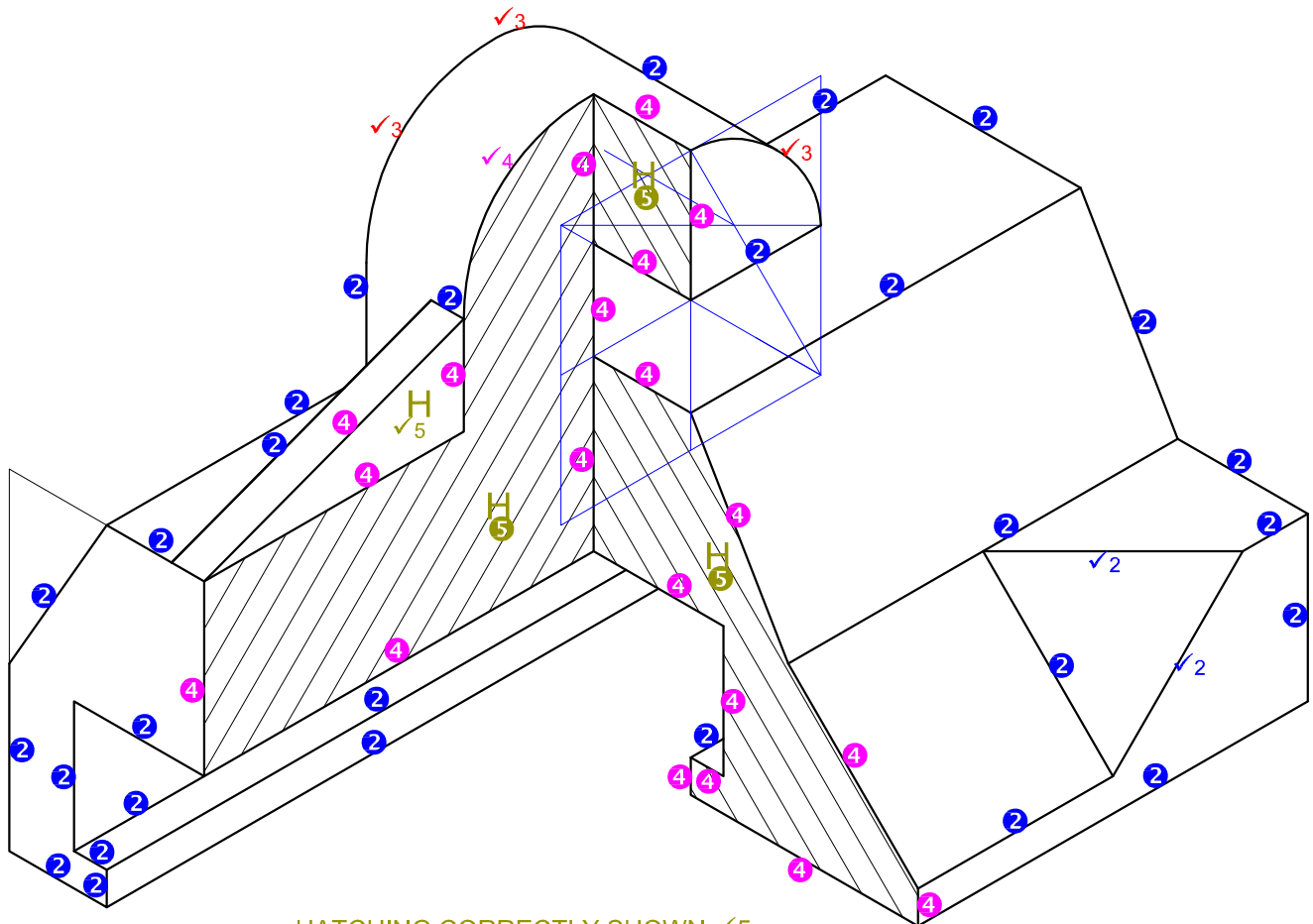


- CONSTRUCTION:**
- CIRCLE DIVISION 1
 - PITCH 1
 - HORIZONTAL PROJECTION INNER CIRCLE 1
 - HORIZONTAL PROJECTION OUTER CIRCLE 1
 - VERTICAL DIVISION FIRST TURN 1
 - VERTICAL DIVISION SECOND TURN 1
 - DIRECTION 2
- 8

ASSESSMENT CRITERIA				
1	GIVEN + CENTRE LINES + STARTING POINT	4 ½		
2	CONSTRUCTION	8		
3	OUTSIDE POINTS + CURVE + QUALITY	14 ½		
4	INSIDE POINTS + CURVE + QUALITY	10		
PENALTIES (-)				
TOTAL				37

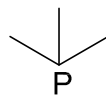


CIRCLE CONSTRUCTION ✓3✓3



HATCHING CORRECTLY SHOWN ✓5

CORRECT PLACEMENT ON POINT P ✓1

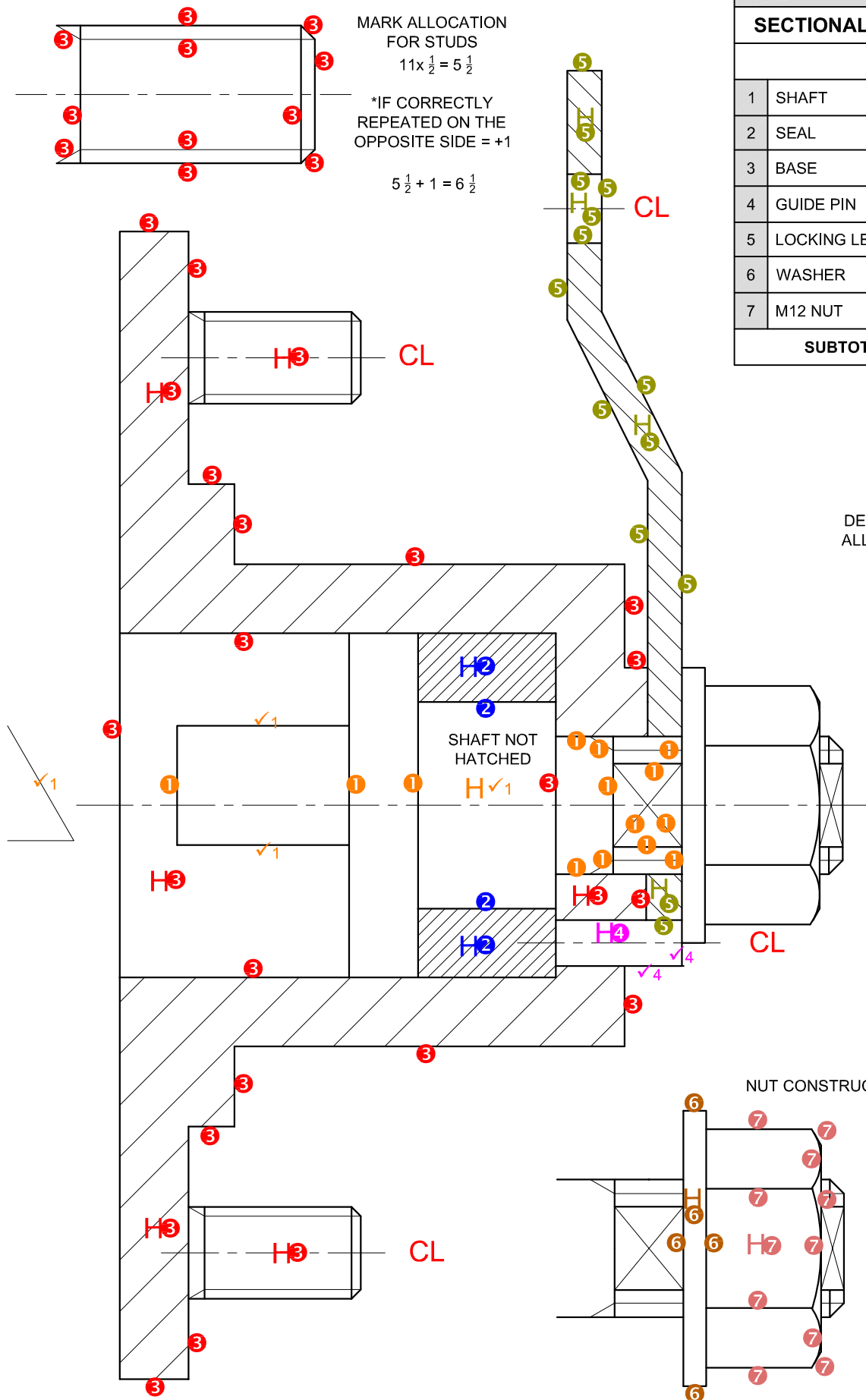


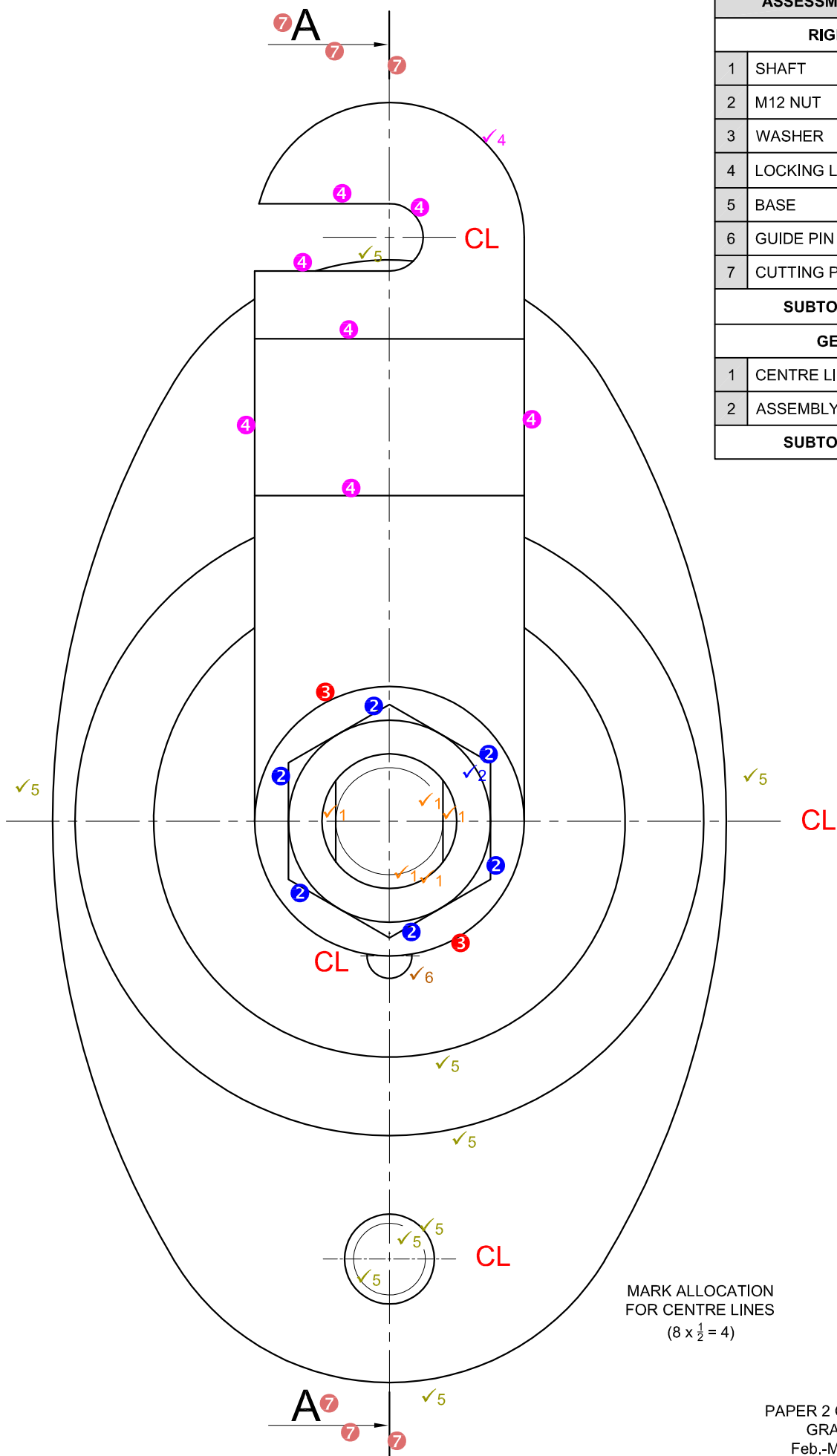
ASSESSMENT CRITERIA		
1	AUX. VIEW + PLACING	3
2	ISOMETRIC + NON-ISOMETRIC LINES	16½
3	ISOMETRIC CIRCLES + CIRCLE CONSTRUCTION.	5
4	SECTIONED SURFACES	11
5	HATCHING	3½
PENALTIES (-)		
TOTAL		39

PAPER 2 QUESTION 3
GRADE 12
Feb.-Mar. 2015
MEMORANDUM

ASSESSMENT CRITERIA**SECTIONAL FRONT VIEW**

		POSSIBLE
1	SHAFT	17 $\frac{1}{2}$
2	SEAL	2
3	BASE	18 $\frac{1}{2}$
4	GUIDE PIN	2 $\frac{1}{2}$
5	LOCKING LEVER	7
6	WASHER	2 $\frac{1}{2}$
7	M12 NUT	6 $\frac{1}{2}$
SUBTOTAL		56 $\frac{1}{2}$



**ASSESSMENT CRITERIA****RIGHT VIEW**

1	SHAFT	5
2	M12 NUT	4
3	WASHER	1
4	LOCKING LEVER	4 $\frac{1}{2}$
5	BASE	9
6	GUIDE PIN	1
7	CUTTING PLANE	3
SUBTOTAL		27 $\frac{1}{2}$

GENERAL

1	CENTRE LINES	4
2	ASSEMBLY	6
SUBTOTAL		10

MARK ALLOCATION
FOR CENTRE LINES
(8 x $\frac{1}{2}$ = 4)

PAPER 2 QUESTION 4
GRADE 12
Feb.-Mar. 2015
MEMORANDUM