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# basic education

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

## **SENIOR CERTIFICATE EXAMINATION/ NATIONAL SENIOR CERTIFICATE EXAMINATION**

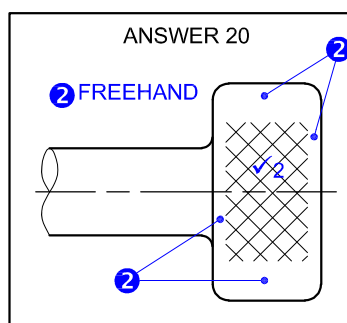
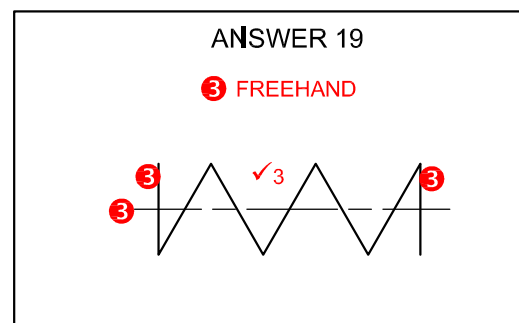
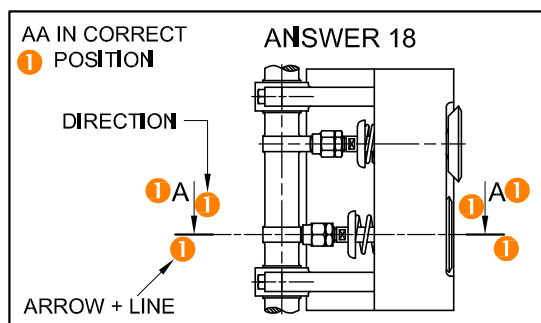
### **ENGINEERING GRAPHICS AND DESIGN P2**

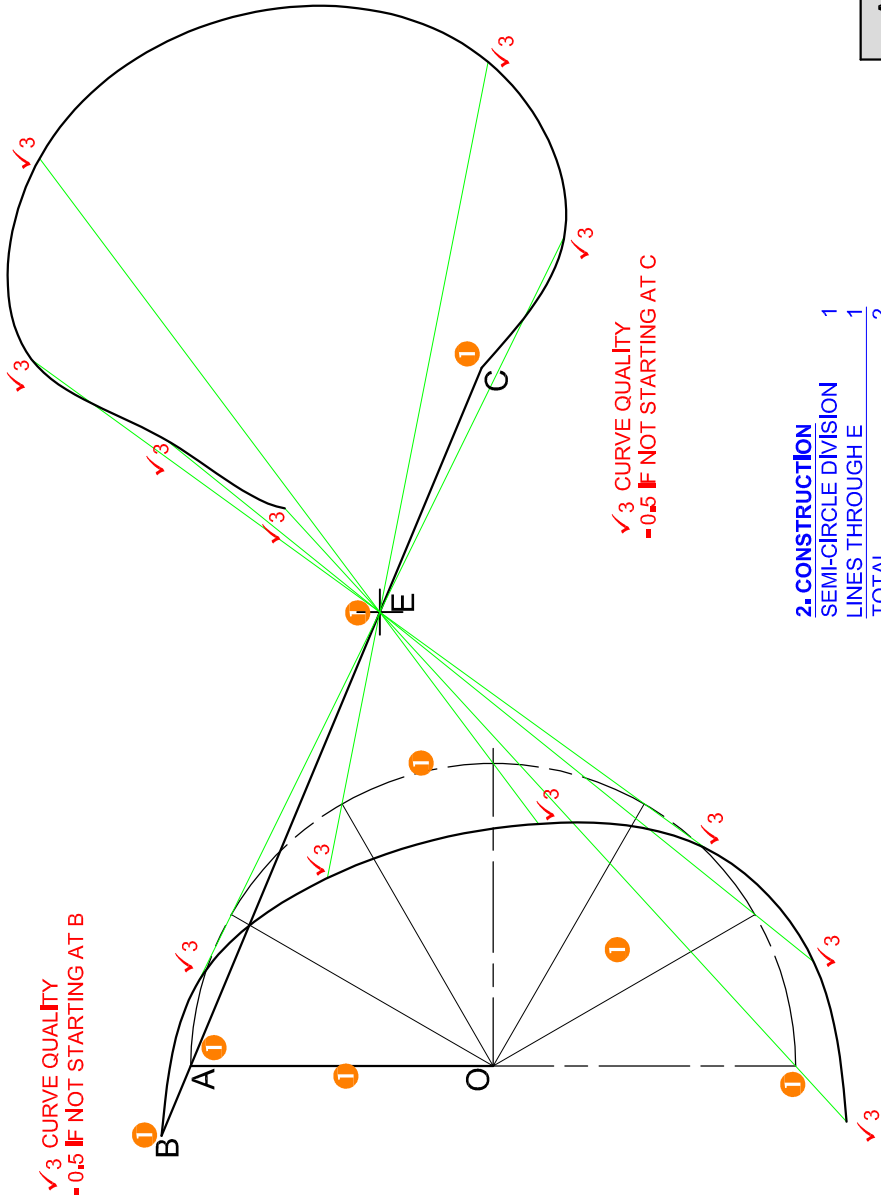
**2022**

**MARKS: 100**

**These marking guidelines consist of 7 pages.**

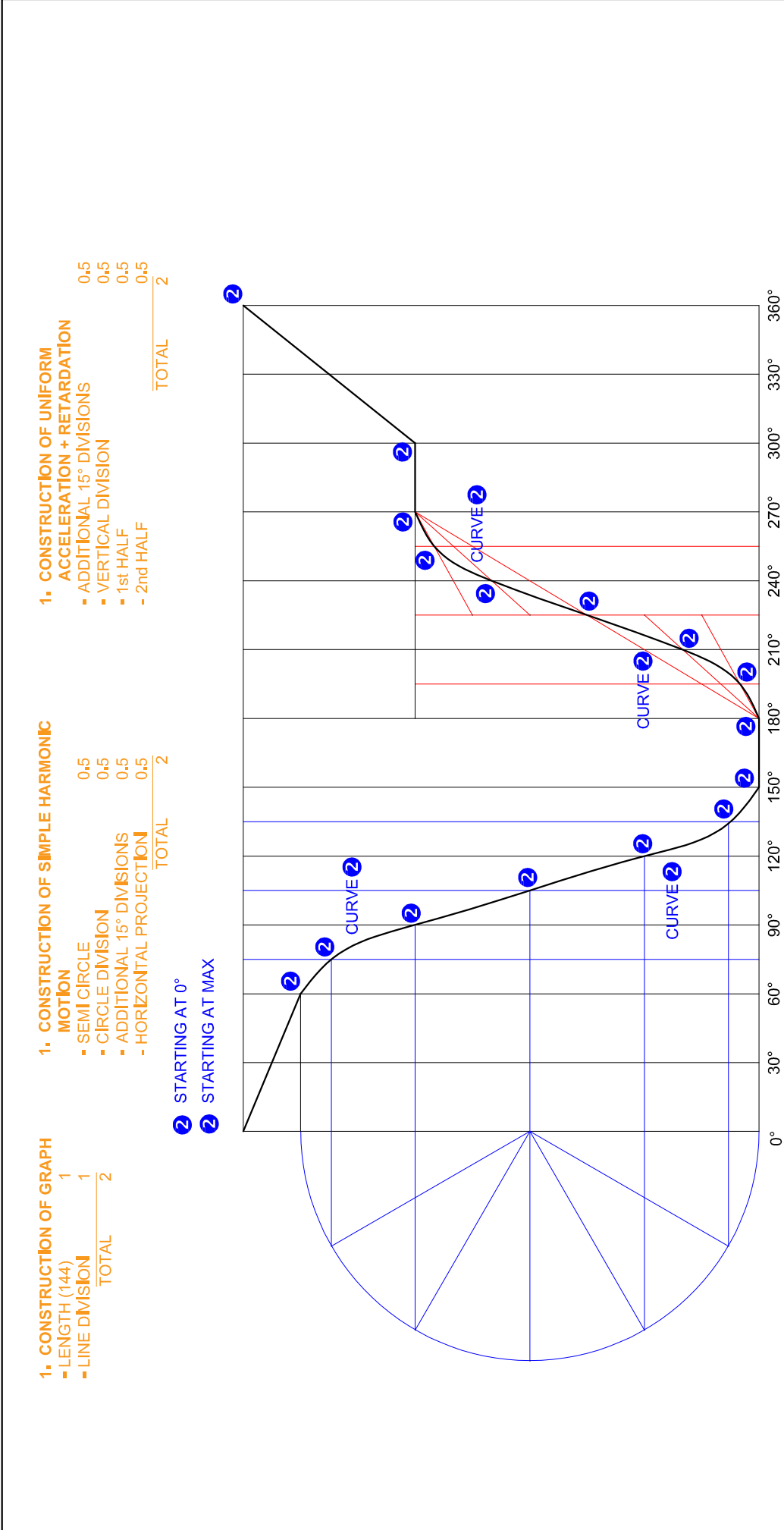
ANSWERS		
1	MC ENGINEERING WORKS	1
2	GERALD	1
3	4	1
4	02/04/2021	1
5	THIRD ANGLE	1
6	AUTOCAD 2021	1
7	M5	1
8	2	1
9	A: 7    B: R2    C: 15    D: R3    E: AF12	5
10	R15	1
11	FLAT FACE ON A SHAFT	1
12	INTERRUPTED VIEW/CONTINUES	1
13	GRINDING	1
14	39.81	1
15	5 mm	1
16	BOTTOM VIEW	1
17	11	1
18	See below	3 $\frac{1}{2}$
19		3
20		2 $\frac{1}{2}$
TOTAL		30



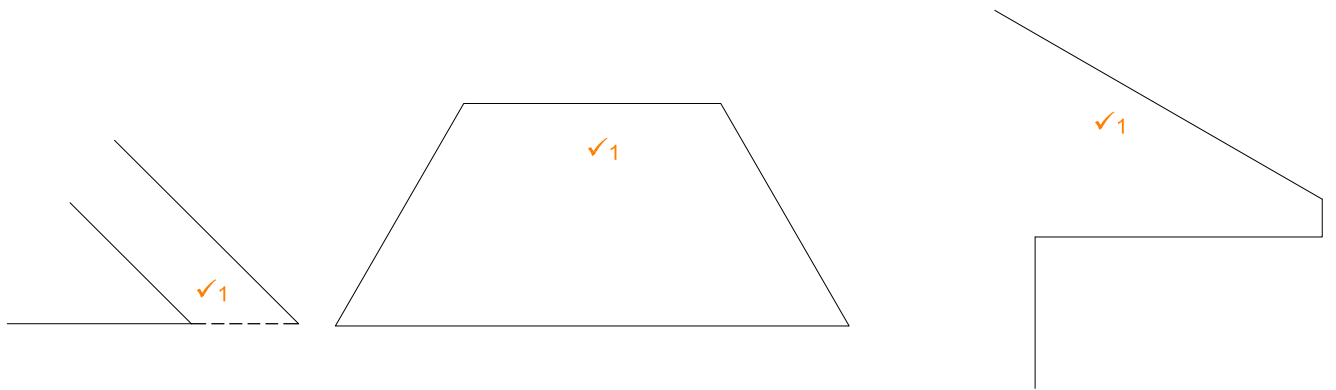


2. CONSTRUCTION  
SEMI-CIRCLE DIVISION 1  
LINES THROUGH E 1  
TOTAL 2

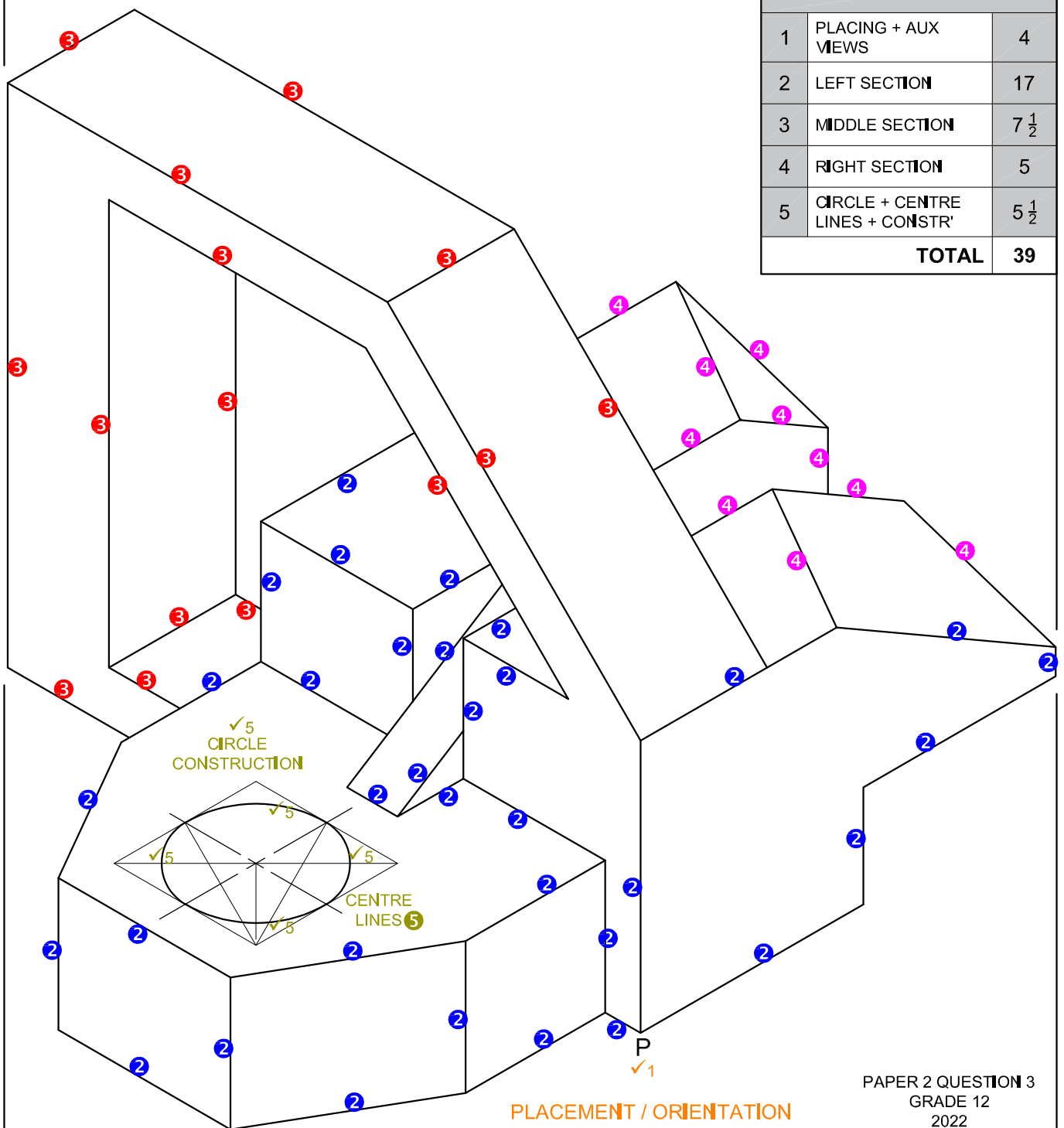
ASSESSMENT CRITERIA 2.1			
1	GIVEN	4	
2	CONSTRUCTION	2	
3	POINTS + CURVE	14	
TOTAL			20



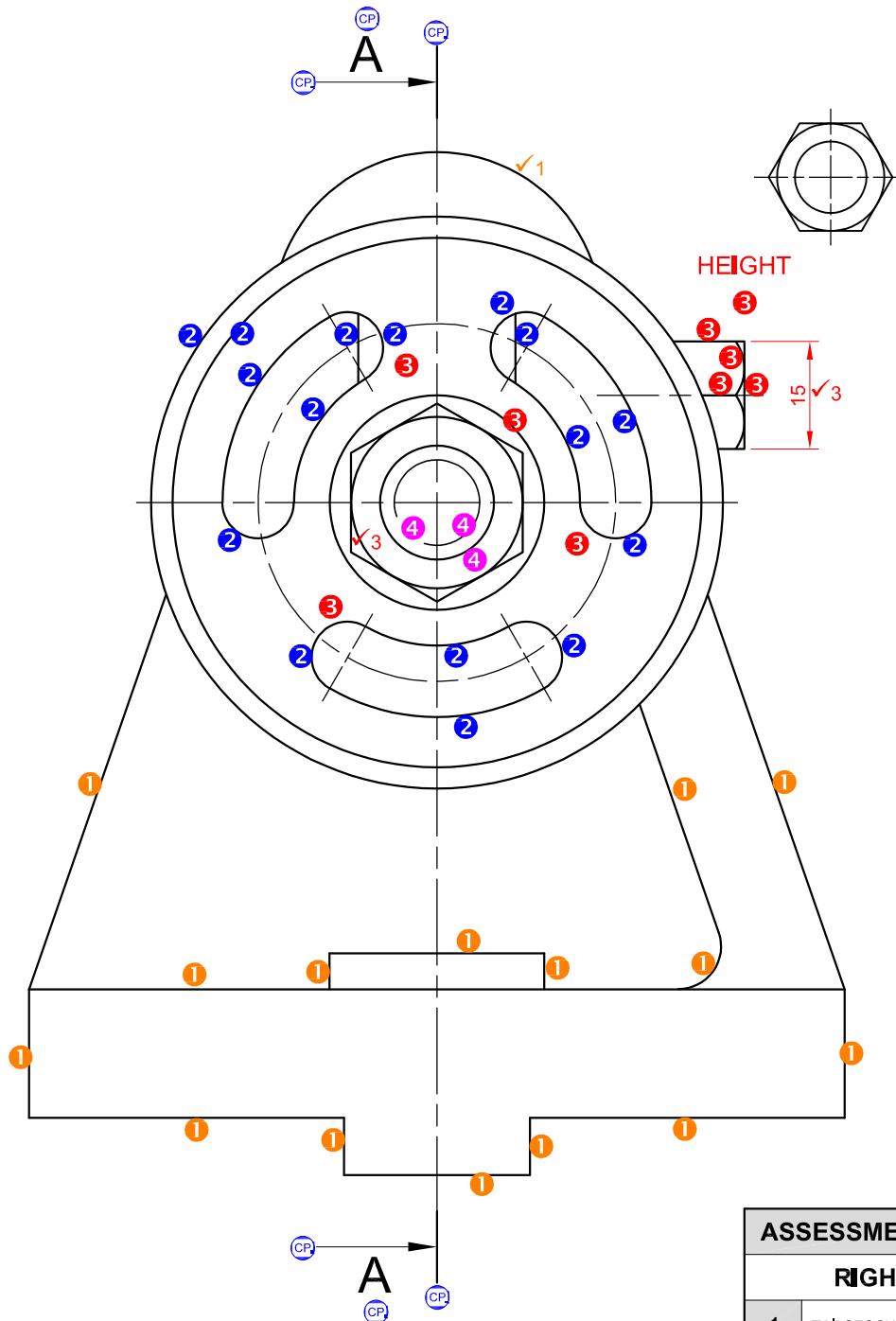
ASSESSMENT CRITERIA 2.2		
1	CONSTRUCTION	6
2	POINTS + CURVE	11
3	LABELS	1
TOTAL		18



ASSESSMENT CRITERIA		
1	PLACING + AUX VIEWS	4
2	LEFT SECTION	17
3	MIDDLE SECTION	7 $\frac{1}{2}$
4	RIGHT SECTION	5
5	CIRCLE + CENTRE LINES + CONSTR'	5 $\frac{1}{2}$
TOTAL		39



PAPER 2 QUESTION 3  
GRADE 12  
2022  
MARKING GUIDELINES



3. ASSEMBLY (ALTERNATIVE IF ONLY THE RIGHT VIEW WAS DRAWN)  
1 MARK FOR EVERY COMPONENT CORRECTLY ASSEMBLED (7 PARTS - 1) = 6

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

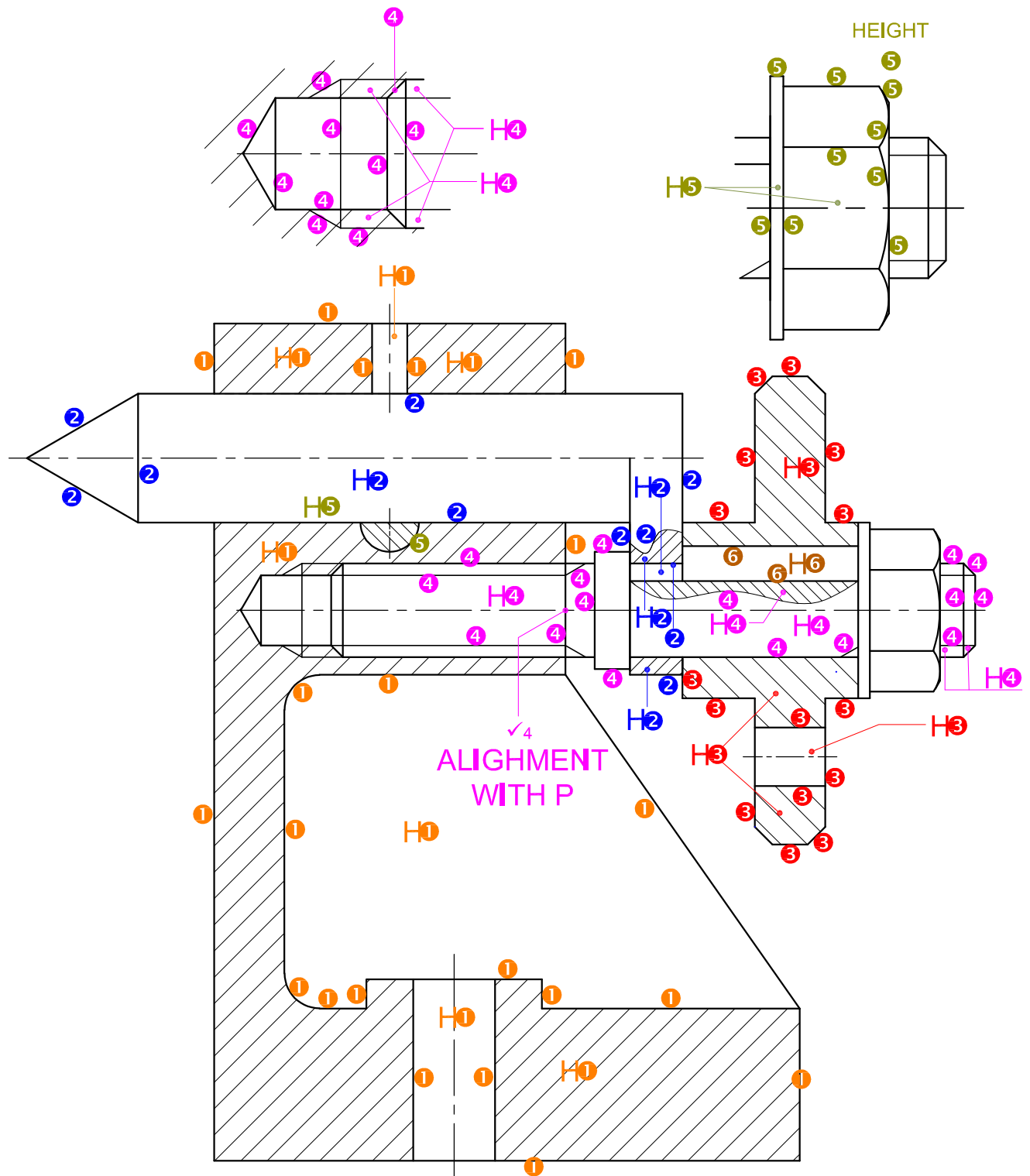
1	TAILSTOCK	8 $\frac{1}{2}$
2	ADJUSTING WHEEL + DEAD CENTRE	8
3	M16 NUT + WASHER + LOCKING NUT	6 $\frac{1}{2}$
4	ADJUSTING STUD	1 $\frac{1}{2}$

**SUBTOTAL** 24  $\frac{1}{2}$

**GENERAL**

2	CUTTING PLANE	3
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PAPER 2 QUESTION 4  
GRADE 12  
2022  
MARKING GUIDELINES

**3. ASSEMBLY**

1 MARK FOR EVERY COMPONENT CORRECTLY ASSEMBLED (8 PARTS = 1) = 7

**1. CENTRE LINE MARK ALLOCATION**  
 SANS COMPLIANT (LINE TYPE)  
 CENTRE LINES

(1 to 4 = 1 / 5 to 11 = 2 / 12 to 14 = 3)

TOTAL 4

ASSESSMENT CRITERIA		
GENERAL		
1	CENTRE LINES	4
3	ASSEMBLY	7
SUBTOTAL		14

PAPER 2 QUESTION 4  
 GRADE 12  
 2022  
 MARKING GUIDELINES

ASSESSMENT CRITERIA		
SECTIONAL FRONT VIEW		
1	TAILSTOCK	14
2	DEAD CENTRE	7
3	ADJUSTING WHEEL	9
4	ADJUSTING STUD	16 $\frac{1}{2}$
5	M16 NUT + WASHER + M10 LOCKING BOLT	6 $\frac{1}{2}$
6	KEY	1 $\frac{1}{2}$
SUBTOTAL		54 $\frac{1}{2}$