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## SENIOR CERTIFICATE EXAMINATION/ NATIONAL SENIOR CERTIFICATE EXAMINATION

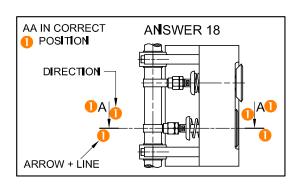
## **ENGINEERING GRAPHICS AND DESIGN P2**

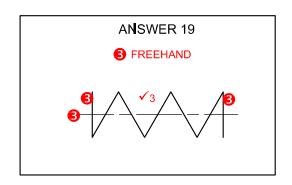
2022

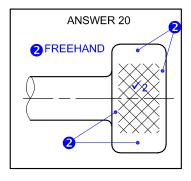
**MARKS: 100** 

These marking guidelines consist of 7 pages.

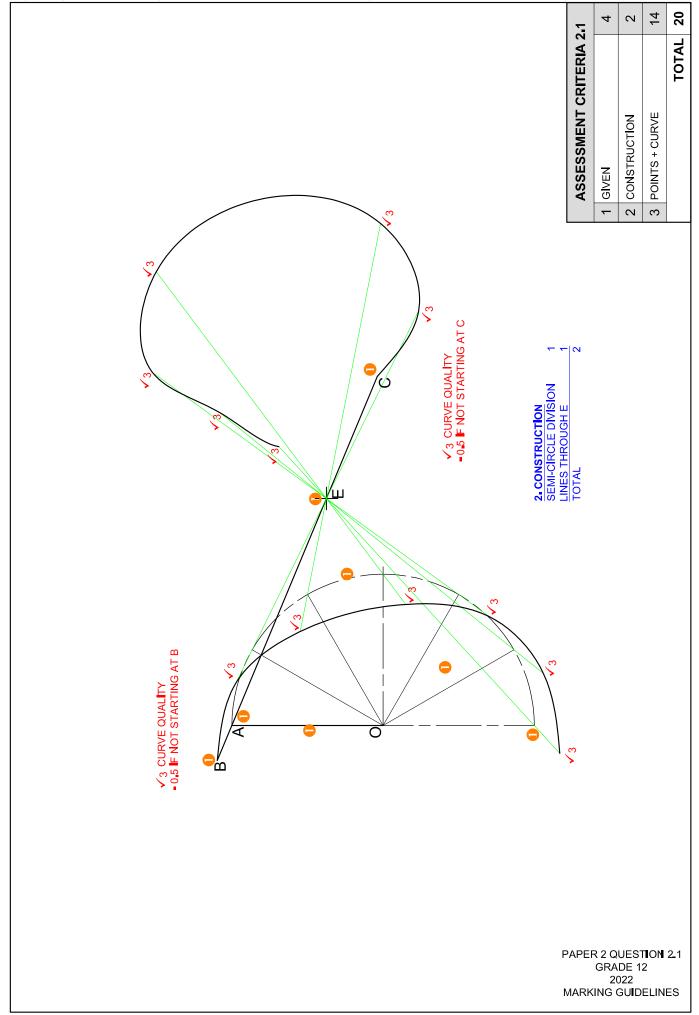
ANSWERS				
1	MC ENGINEERING WORKS	1		
2	GERALD	1		
3	4	_1		
4	02/04/2021	1		
5	THIRD ANGLE	1		
6	AUTOCAD 2021	1		
7	M5	1		
8	2	1		
9	A: 7 B: R2 C: 15 D: R3 E: AF12	5		
10	R15	1		
11	FLAT FACE ON A SHAFT	1		
12	INTERRUPTED VIEW/CONTINUES	1		
13	GRINDING	1		
14	39.81	1		
15	5 mm	1		
16	BOTTOM VIEW	1		
17	11	1		
18		3 <del>1</del> 2		
19	See below	3		
20		2 ½		
	TOTAL	30		

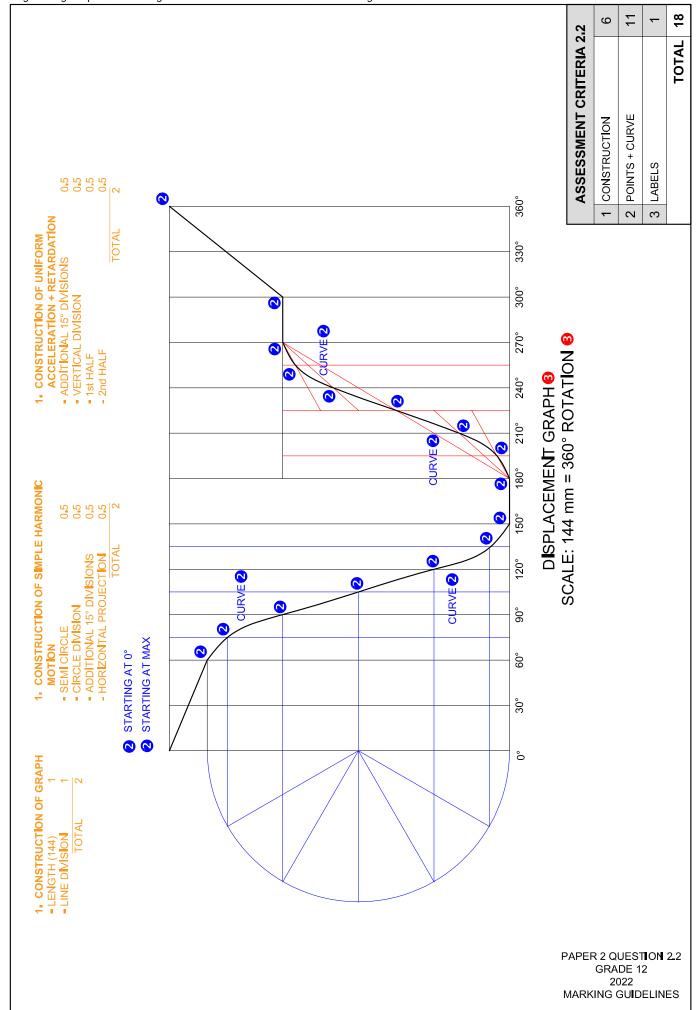


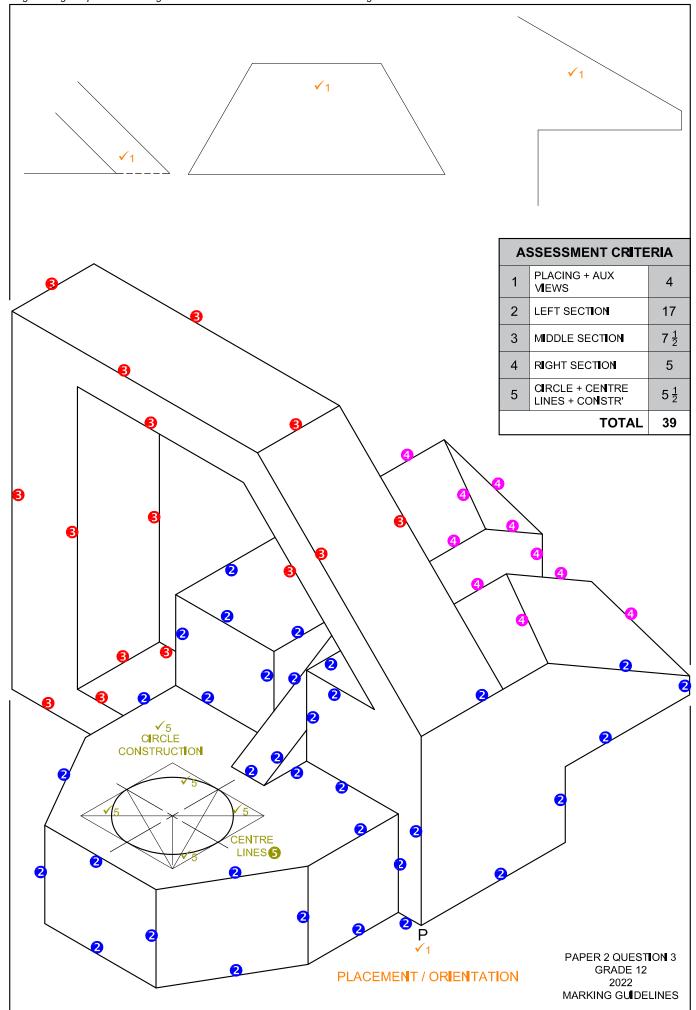


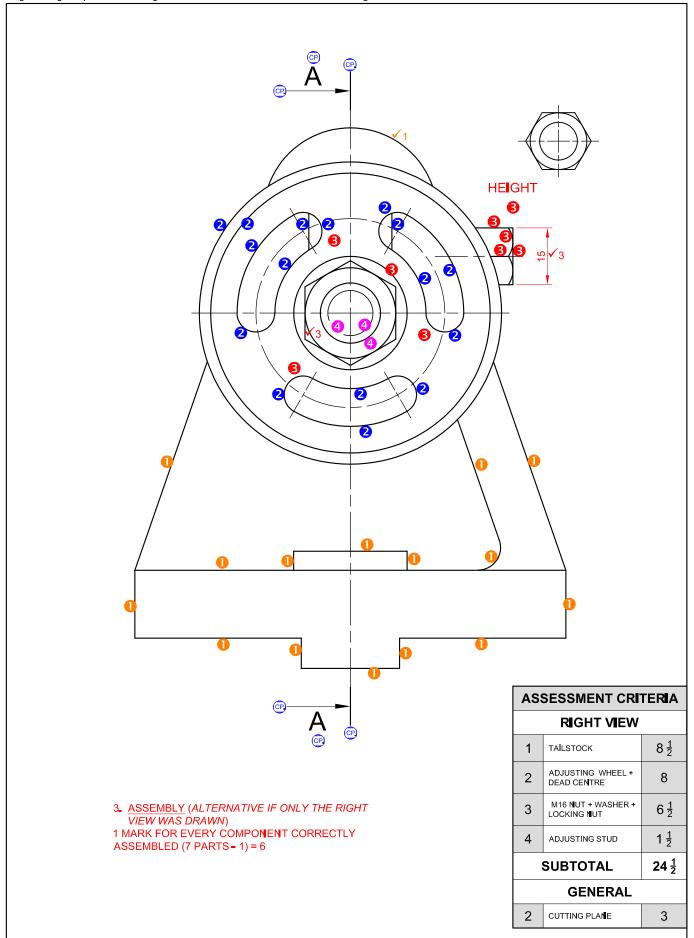


PAPER 2 QUESTION 1 GRADE 12 2022 MARKING GUIDELINES

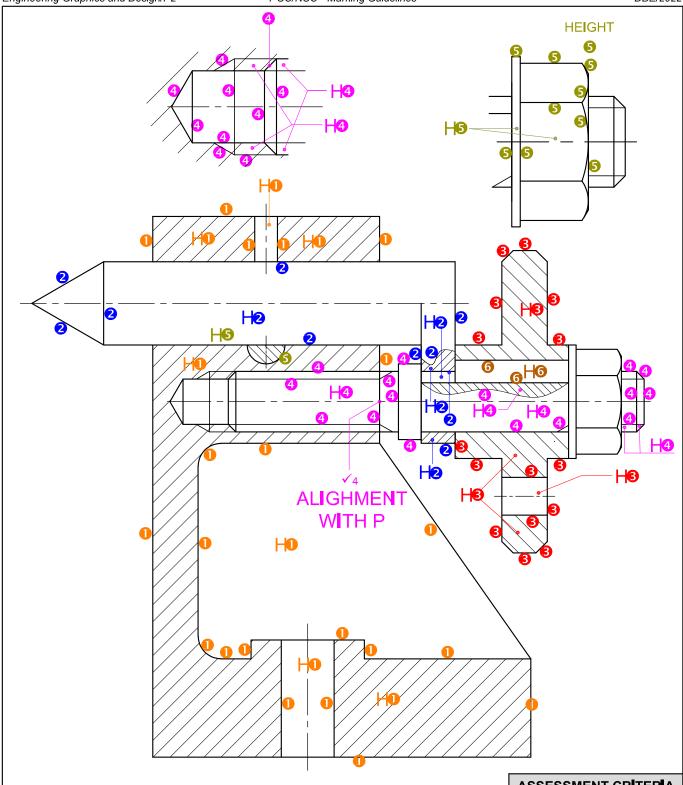








PAPER 2 QUESTION 4 GRADE 12 2022 MARKING GUIDELINES



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

1. CENTRE LINE MARK ALLOCATION
SANS COMPLIANT (LINE TYPE) 1
CENTRE LINES 3
(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 ½		
5	M16 NUT + WASHER + M10 LOCKING BOLT	6 ½		
6	KEY	1 ½		
SUBTOTAL 54 ½				