

### SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS

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

2021

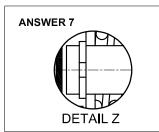
#### **MARKING GUIDELINES**

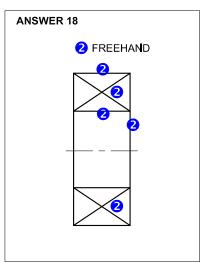
**MARKS: 100** 

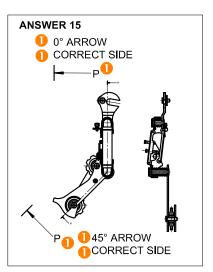
These marking guidelines consist of 7 pages.

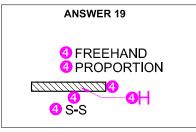
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ANSWERS			
1	REAR DERAILLEUR ASSEMBLY	1	
2	SPEED STREET	1	
3	3	1	
4	MAFIKA	1	
5	VBJW031	1	
6	SECTIONAL RIGHT VIEW	2	
7	See below	1	
8	3	1	
9	B: R5 C: 16 D: 20 E: 98	4	
10	135°	1	
11	17	1	
12	KNURLING	1	
13	ACROSS FLATS	1	
14	REVOLVED SECTION	1	
15	See below	3	
16	ALIGNED SECTION	1	
17	1.64	2	
18	Saa halaw	3	
19	See below		
	TOTAL	30	

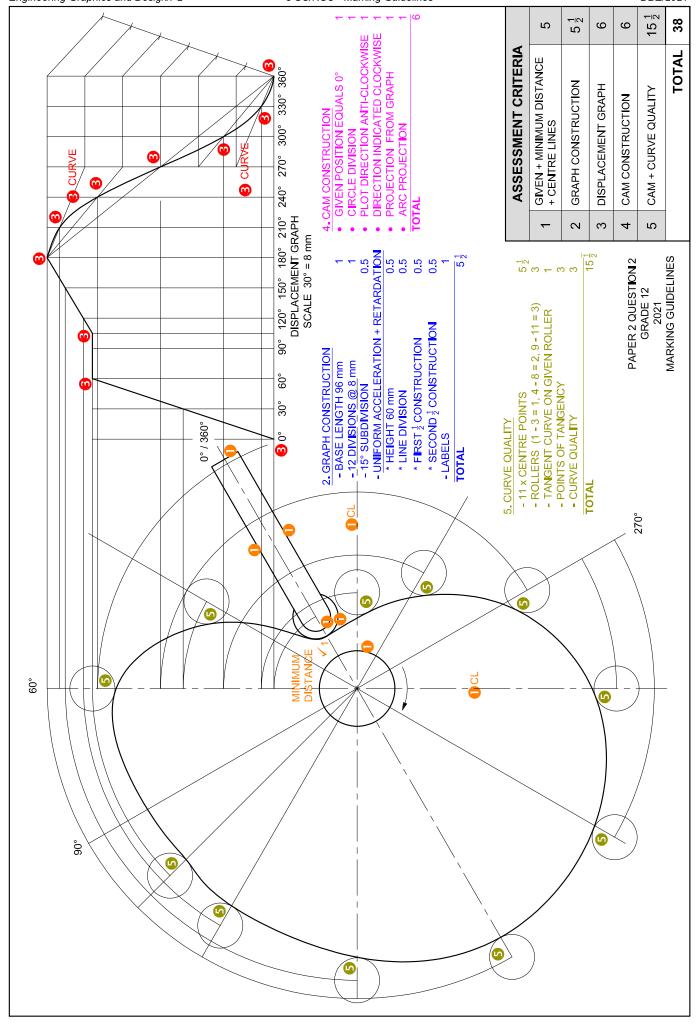


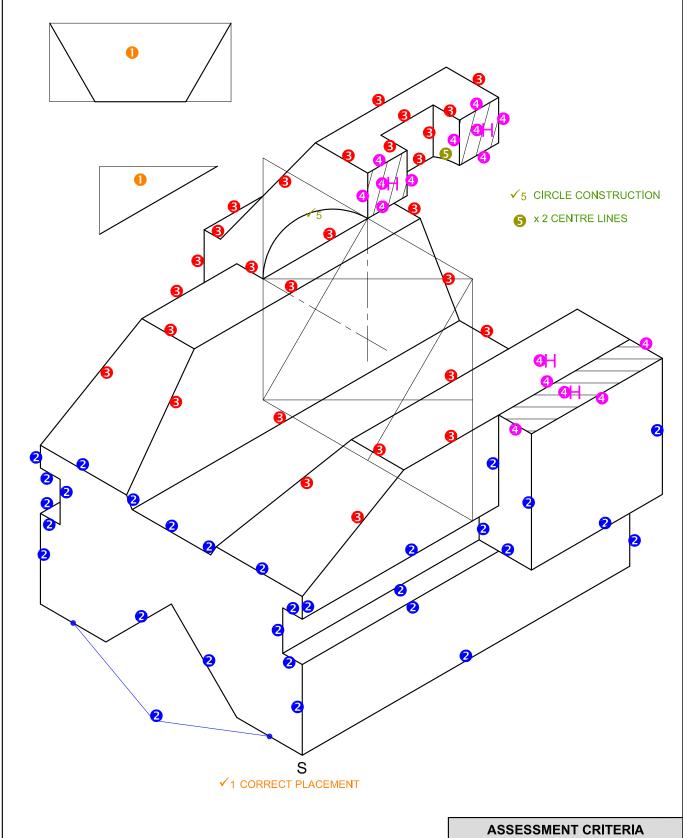






PAPER 2 QUESTION 1 GRADE 12 2021 MARKING GUIDELINE

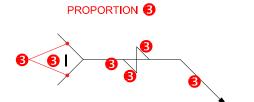




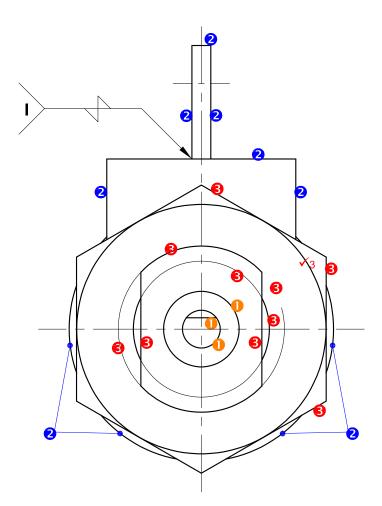
PAPER 2 QUESTION 3 GRADE 12 2021 MARKING GUIDELINES

ASSESSMENT CRITERIA			
1	AUX. VIEW + PLACING	2	
2	LOWER PORTION	15	
3	UPPER PORTION	14	
4	SECTION	8	
5	5 ISO CIRCLES + CIRCLE CONSTR' + CENTRE LINES		
	TOTAL	42	

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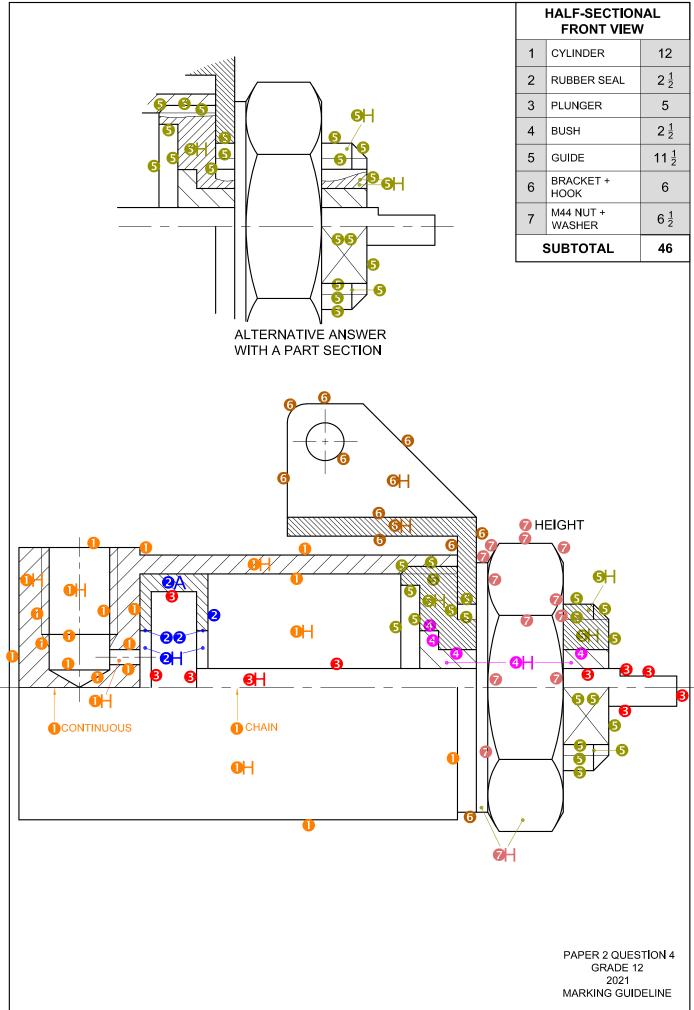


RIGHT VIEW			
		POSSIBLE	
1	SHAFT + BUSH	1 ½	
2	CYLINDER + BRACKET + HOOK	4	
3	M44 NUT + GUIDE	6	
SUBTOTAL		11 ½	



PAPER 2 QUESTION 4 GRADE 12 2021 MARKING GUIDELINE

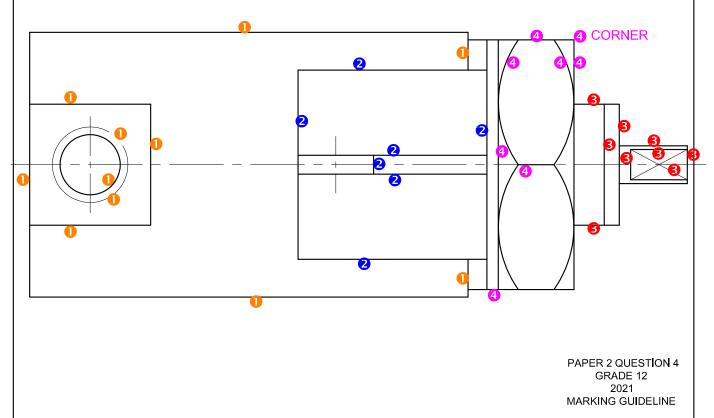
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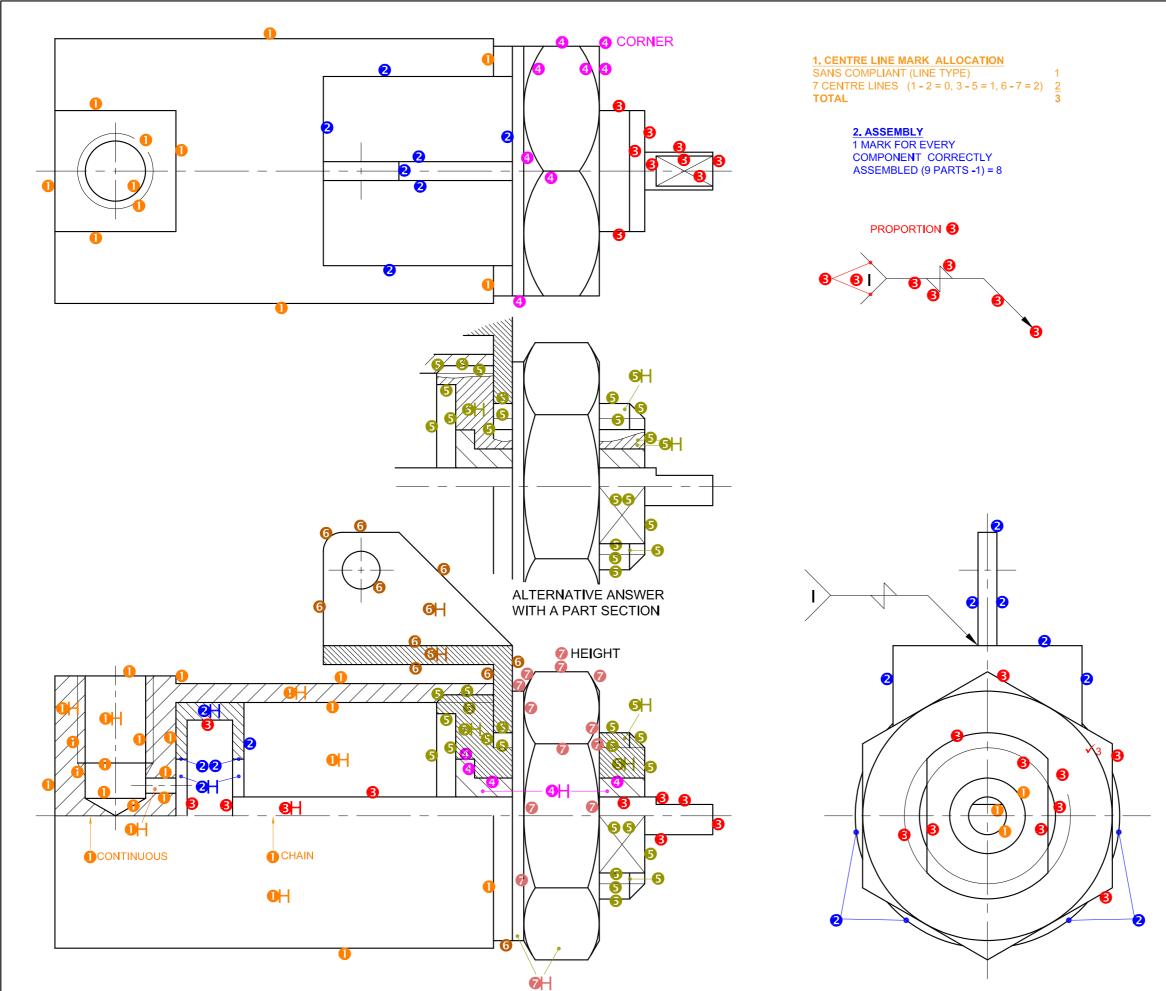


# 1. CENTRE LINE MARK ALLOCATION SANS COMPLIANT (LINE TYPE) 1 11 CENTRE LINES (1 - 2 = 0, 3 - 5 = 1, 6 - 7 = 2) 2 TOTAL 3

## 2. ASSEMBLY 1 MARK FOR EVERY COMPONENT CORRECTLY ASSEMBLED (9 PARTS -1) = 8

		DDE/2021	
	TOP VIEW		
1	CYLINDER	5 ½	
2	BRACKET + HOOK	3 ½	
3	GUIDE + SHAFT	4 ½	
	M44 NUT + WASHER	4	
SUBTOTAL		17 ½	
GENERAL			
1	CENTRE LINES	3	
2	ASSEMBLY	8	
	WELDING	. /	
3	SYMBOL	4	





FOR OFFICIAL USE ONLY	
INCORRECT OVERALL SCALE	
INCORRECT HATCHING	
PARTS NOT ASSEMBLED	
TOTAL PENALTIES (-)	

	ASSESSMENT CRITERIA				
	RI	GHT VIE	W		
		POSS <b>I</b> BLE	OBTAINED	SIGN	MODERATED
1	SHAFT + BUSH	$1\frac{1}{2}$			
2	CYLINDER + BRACKET + HOOK	4			
3	M44 NUT + GUIDE	6			
	SUBTOTAL	$11\frac{1}{2}$			
	HALF-SECT	IONAL F	RONT	VIEW	
1	CYLINDER	12			
2	RUBBER SEAL	$2\frac{1}{2}$			
3	PLUNGER	5			
4	BUSH	$2\frac{1}{2}$			
5	GUIDE	11 ½			
6	BRACKET + HOOK	6			
7	M44 NUT + WASHER	6 ½			
5	SUBTOTAL	46			
	Ţ	OP VIE	N		
1	CYLINDER	$5\frac{1}{2}$			
2	BRACKET + HOOK	3 ½			
3	GUIDE + SHAFT	$4\frac{1}{2}$			
4	M44 NUT + WASHER	4			
5	SUBTOTAL	$17\frac{1}{2}$			
	G	ENERA	\L		
1	CENTRE LINES	3			
2	ASSEMBLY	8			
3	WELDING SYMBOL	4			
SUBTOTAL		15			
	TOTAL				
PENA	PENALTIES (-)				
	GRAND TOTAL				
EXAMINATION NUMBER					
EXAMINATION NUMBER 6					