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basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P2

NOVEMBER 2023

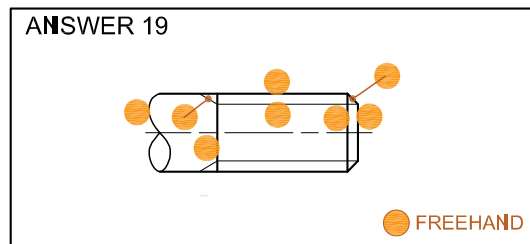
MARKING GUIDELINES

MARKS: 100

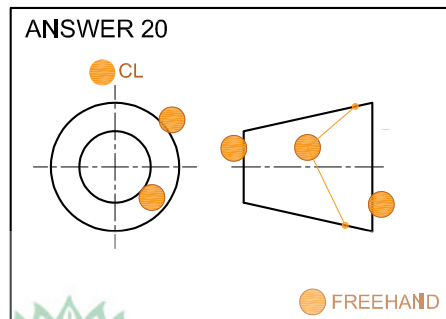
These marking guidelines consist of 7 pages.

ANSWERS		
1	SHARK STREET	1
2	APPROVED	1
3	SCGG213	1
4	<u>INTERRUPTED VIEW</u> /	1
5	<u>INDUCTION</u>	1
6	REMOVED	1
7	PART / PARTIAL	1
8	B: R10 C: R4 D: 135 E: 2	4
9	36°, 37° , 38°	1
10	2	1
11	ALTERNATIVE- / EXTREME POSITION	1
12	4	1
13	NOT TO SCALE	1
14	<u>RIGHT</u> VIEW	1
15	5	1
16	MIN = 7,9 & MAX = 8,23	2
17	MULTI-DIRECTIONAL	1
18	<u>ROUGHNESS</u> VALUE	1
19	See below	4 $\frac{1}{2}$
20		3 $\frac{1}{2}$
TOTAL		30

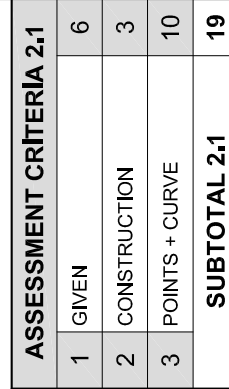
ANSWER 19



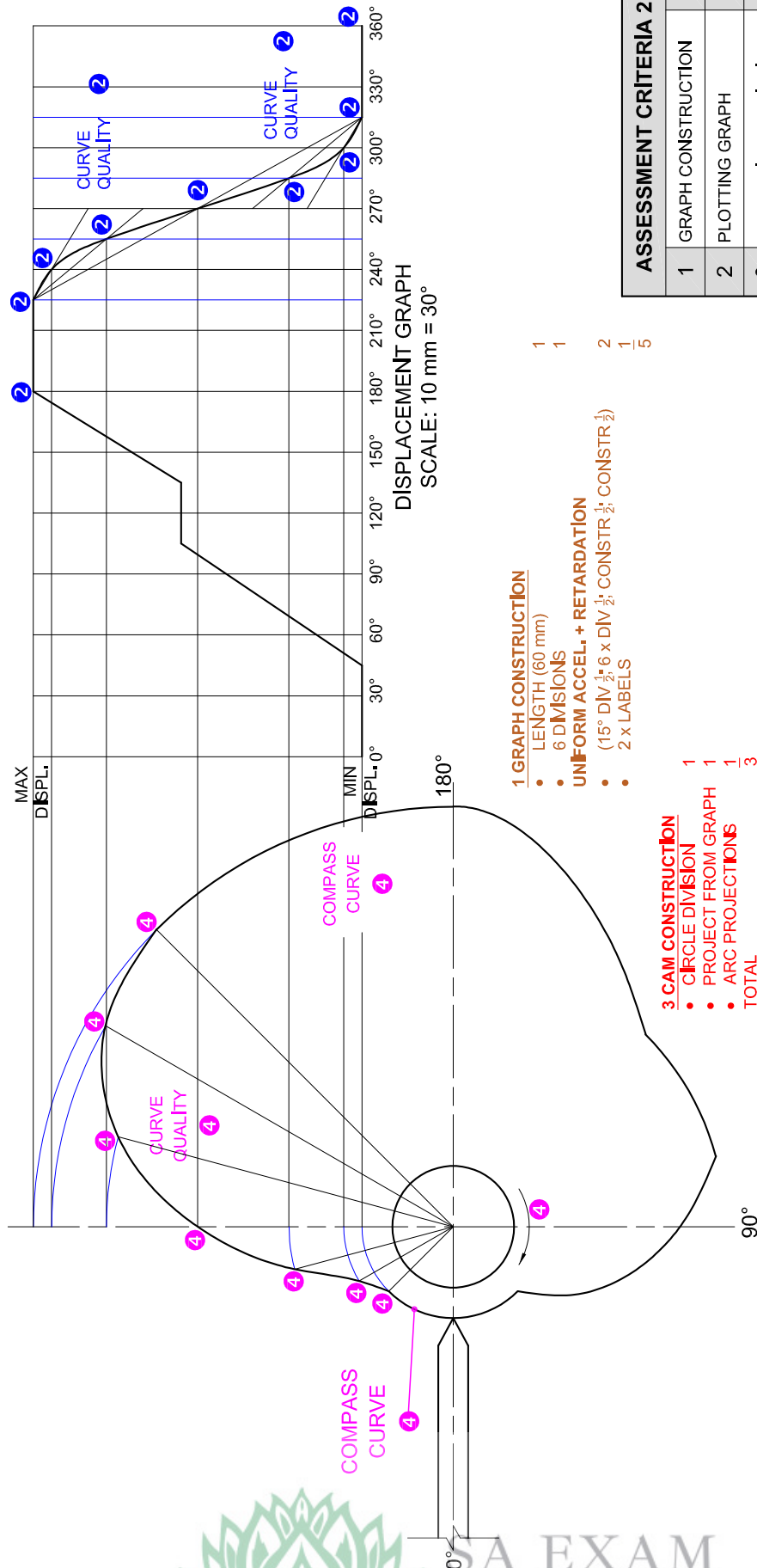
ANSWER 20



PAPER 2 QUESTION 1
 GRADE 12
 NOVEMBER 2023
 MARKING GUIDELINES



PAPER 2 QUESTION 2.1
GRADE 12
NOVEMBER 2023
MARKING GUIDELINES

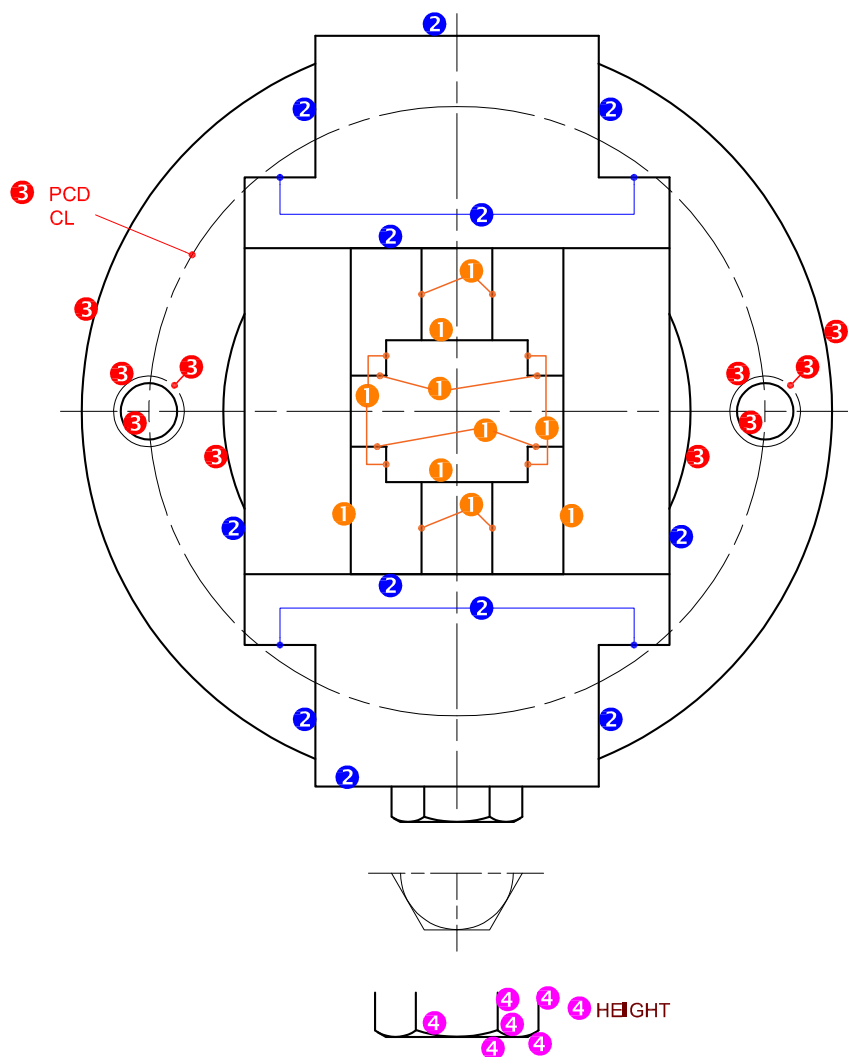


ASSESSMENT CRITERIA 2.2		
1	GRAPH CONSTRUCTION	5
2	PLOTTING GRAPH	5 $\frac{1}{2}$
3	CAM CONSTRUCTION	3
4	CAM + CURVE QUALITY	5 $\frac{1}{2}$
SUBTOTAL 2.2		19

PAPER 2 QUESTION 2.2
GRADE 12
NOVEMBER 2023
MARKING GUIDELINES

PAPER 2 QUESTION 3
GRADE 12
NOVEMBER 2023
MARKING GUIDELINE




**ASSESSMENT
CRITERIA**
LEFT VIEW

1	BRACKET	5
2	COUPLING	6
3	FLANGE	5 $\frac{1}{2}$
4	M10 HEX. BOLT	3 $\frac{1}{2}$
SUBTOTAL		20

PAPER 2 QUESTION 4
GRADE 12
NOVEMBER 2023
MARKING GUIDELINE

MARK ALLOCATION FOR BUSH

MARK ALLOCATION FOR WOODRUFF KEY

MARK ALLOCATION FOR SEAL

ASSESSMENT CRITERIA

ASSESSMENT CRITERIA		
SECTIONAL FRONT VIEW		
1	BRACKET	10 $\frac{1}{2}$
2	BUSH	5
3	COUPLING	18 $\frac{1}{2}$
4	M10 HEX. BOLT	8
5	WOODRUFF KEY	2 $\frac{1}{2}$
6	FLANGE	8
7	SEAL	2
8	WASHER + M20 NUT	5 $\frac{1}{2}$
SUBTOTAL		60

ASSESSMENT CRITERIA

ASSESSMENT CRITERIA		
GENERAL		
1	CENTRE LINES	3
2	ASSEMBLY	9
SUBTOTAL		12

1. CENTRE LINES
SANS COMPLAINT
1-4 = 1; 5-6 = 2
(EXCLUDING PCD CL)
3

2. ASSEMBLY
1 MARK FOR EVERY COMPONENT
CORRECTLY ASSEMBLED (10 PARTS - 1) = 9

8 HEIGHT

PAPER 2 QUESTION 4
GRADE 12
NOVEMBER 2023
MARKING GUIDELINE