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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

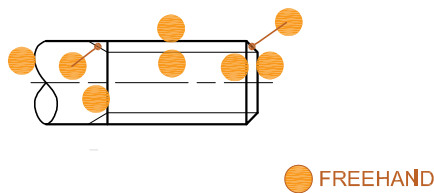
MARKING GUIDELINES

MARKS: 100

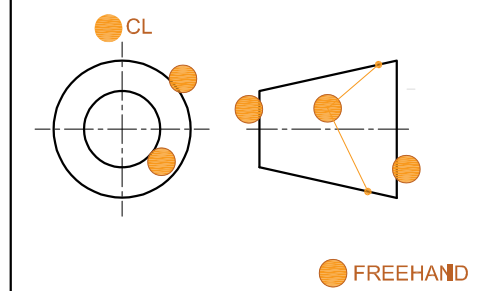
These marking guidelines consist of 7 pages.

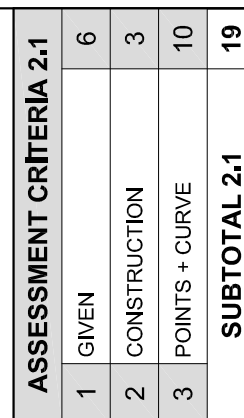
ANSWERS		
1	SHARK STREET	1
2	APPROVED	1
3	SCGG213	1
4	<u>INTERRUPTED</u> V IEW /	1
5	<u>INDUCTION</u>	1
6	REMOVED	1
7	PART / PARTIAL	1
8	B: R10 C: R4 D: 135 E: 2	4
9	36°, 37° , 38°	1
10	2	1
11	ALTERNATIVE- / EXTREME POSITION	1
12	4	1
13	N OT TO SCALE	1
14	<u>RIGHT</u> VIEW	1
15	5	1
16	MIN = 7,9 & MAX = 8,23	2
17	MULTI-DIRECTIONS	1
18	<u>ROUGHNESS</u> VALUE	1
19	See below	4 ¹ / ₂
20		3 ¹ / ₂
TOTAL		30

ANSWER 19

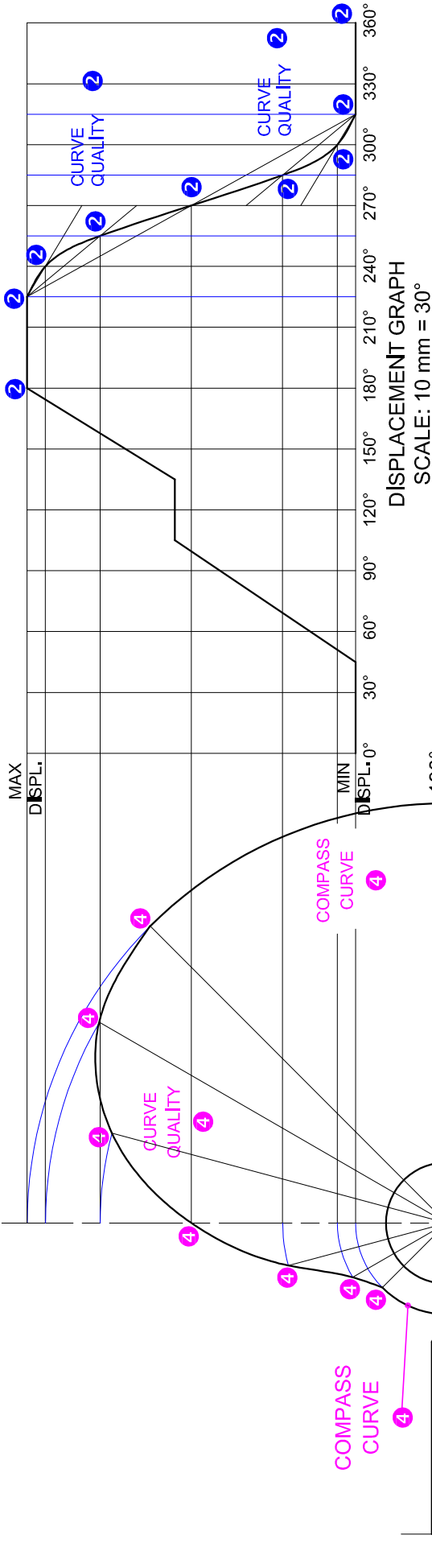


ANSWER 20





PAPER 2 QUESTION 2.1
GRADE 12
NOVEMBER 2023
MARKING GUIDELINES



DISPLACEMENT GRAPH
SCALE: 10 mm = 30°

- 1 GRAPH CONSTRUCTION**
- LENGTH (60 mm) 1
 - 6 DIVISIONS 1
 - UNIFORM ACCEL. + RETARDATION**
 - (15° DIV $\frac{1}{2} \times 6 \times \text{DIV } \frac{1}{2}$; CONSTR $\frac{1}{2}$) 2
 - 2 x LABELS $\frac{1}{5}$

- 3 CAM CONSTRUCTION**
- CIRCLE DIVISION 1
 - PROJECT FROM GRAPH 1
 - ARC PROJECTIONS 1
 - TOTAL 3

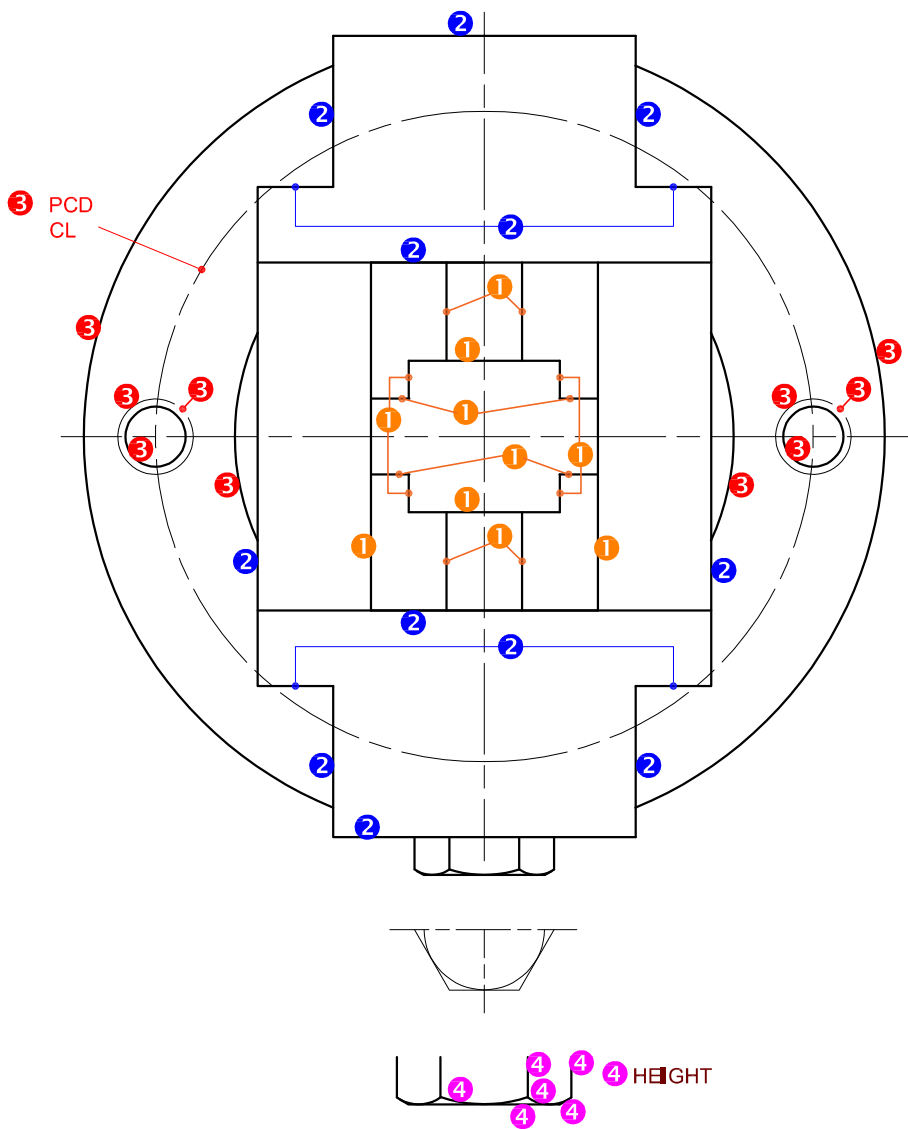
ASSESSMENT CRITERIA 2.2	
1	GRAPH CONSTRUCTION
2	PLOTTING GRAPH
3	CAM CONSTRUCTION
4	CAM + CURVE QUALITY
SUBTOTAL 2.2	
19	

PAPER 2 QUESTION 2.2
GRADE 12
NOVEMBER 2023
MARKING GUIDELINES

✓1 PLACEMENT/ORIENTATION

ASSESSMENT CRITERIA	
1	PLACING + AUX. VIEWS
2	FRONT + MIDDLE SURFACES
3	SECTIONED SURFACE + HATCHING
4	CIRCLE + CL
TOTAL	
	40

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

8 HEIGHT

ASSESSMENT CRITERIA

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

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

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

PAPER 2 QUESTION 4
GRADE 12
NOVEMBER 2023
MARKING GUIDELINE