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basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS

ENGINEERING GRAPHICS AND DESIGN P2

MAY/JUNE 2024

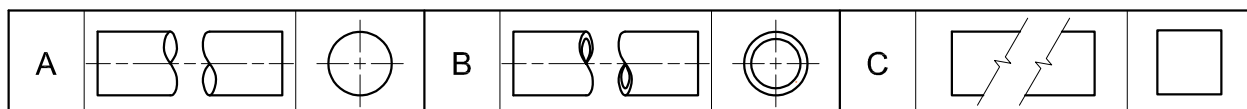
MARKING GUIDELINES

MARKS: 100

These marking guidelines consist of 7 pages.

ANSWERS		
1	SIPHO	1
2	www.mecdrow.co.za	1
3	JJVWBJ-6	1
4	1500	1
5	CAD	1
6	2	1
7	18	1
8	1 / ONE	1
9	4	1
10	ROUNDING	1
11	C: 39 D: 28 E: 106 F: Ø38 G: 90	5
12	35°, 36°, 37°	1
13	M14 x 1,5	2
14	MAX. = 162,02 MIN. = 161,83	2
15	9	1
16	Q: T	2
	R: V	
17	AUXILIARY VIEW	1
18	DIRECTION OF LAY/ CIRCULAR MACHINING	1
19	MATERIAL REMOVAL NOT PERMITTED	1
20	See below	4
TOTAL		30

ANSWER 20



FREEHAND ①

CIRCLE ①

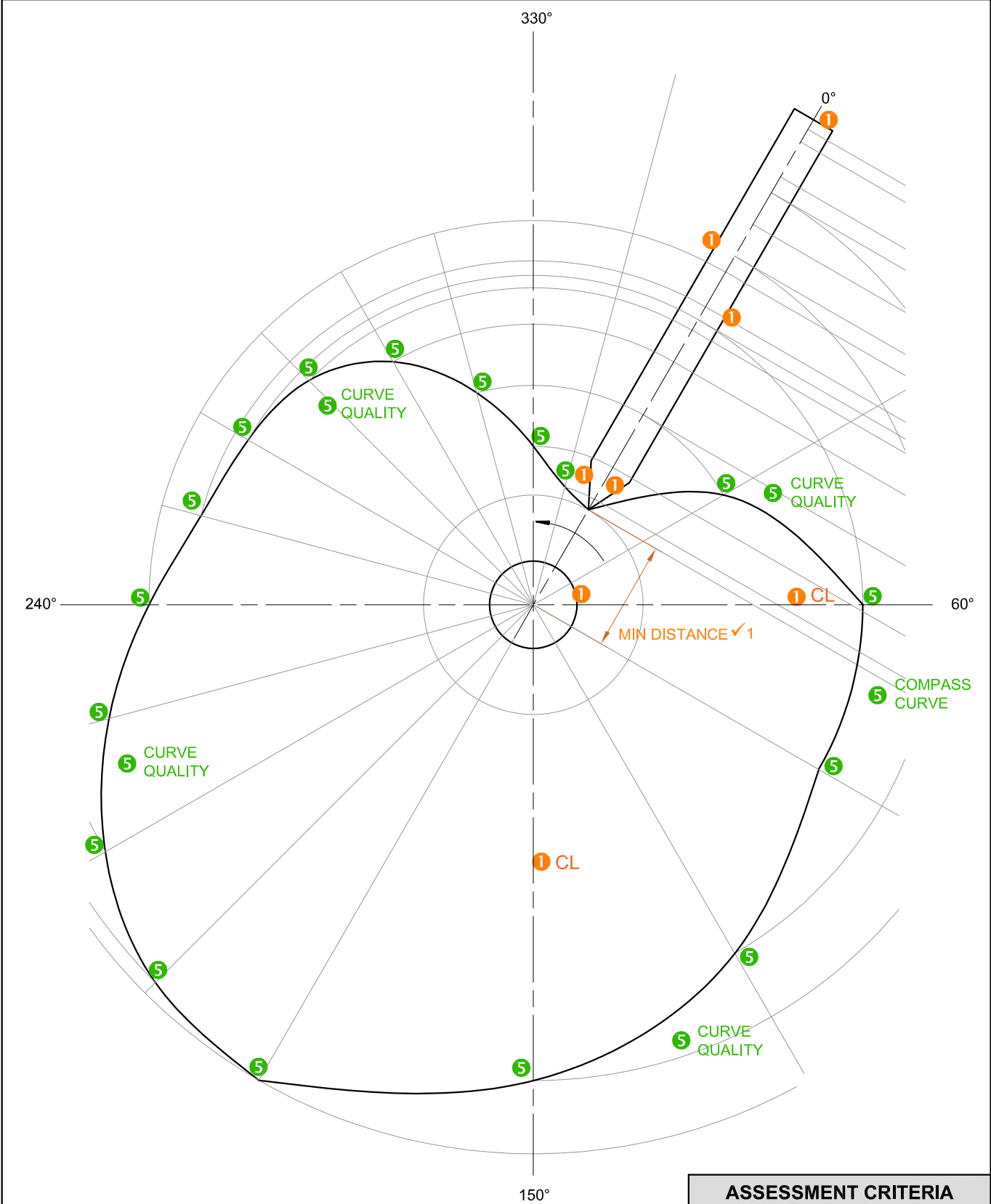
OUTER
CIRCLE ①SQUARE /
RECTANGLE ✓₁

2 x CL ①

INNER
CIRCLE ①

2 x CL ①

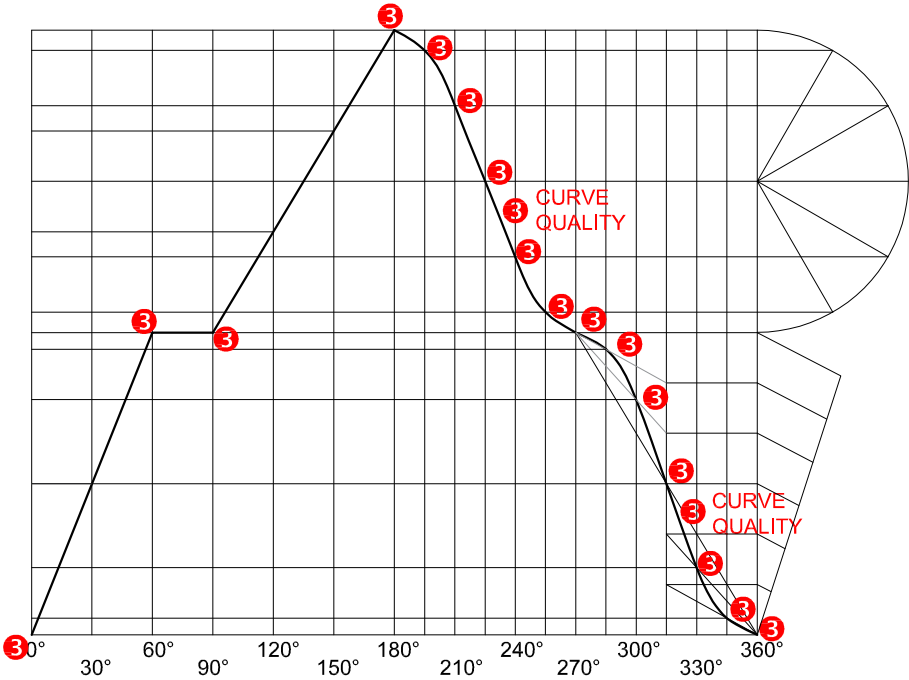
PAPER 2 QUESTION 1
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES



4. CAM CONSTRUCTION		
•	GIVEN POSITION EQUALS 0°	1
•	CIRCLE DIVISION	1
•	PROJECTION/TRANSFER FROM GRAPH	1
•	ARC PROJECTION/TRANSFER	1
•	ARROW INDICATING ANTI-CLOCKWISE	1
TOTAL		5

ASSESSMENT CRITERIA		
1	GIVEN + MINIMUM DISTANCE + CL	5
4	CAM CONSTRUCTION	5
5	PLOTTING + CAM PROFILE	11
TOTAL		21

PAPER 2 QUESTION 2
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES



SCALE 8 mm = 30°

2. GRAPH CONSTRUCTION

- BASE LENGTH 96 mm 1
- 12 EQUAL DIVISIONS 1
- TOTAL HEIGHT 80 mm 0.5

SIMPLE HARMONIC MOTION

- SEMI CIRCLE 0.5
- CIRCLE DIVISIONS 0.5
- 15° SUBDIVISIONS 0.5
- PROJECTION 0.5

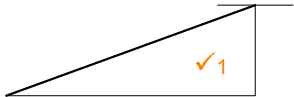
UNIFORM ACCELERATION + RETARDATION

- LINE DIVISION 0.5
- 15° SUBDIVISIONS 0.5
- FIRST ½ CONSTRUCTION 0.5
- SECOND ½ CONSTRUCTION 0.5

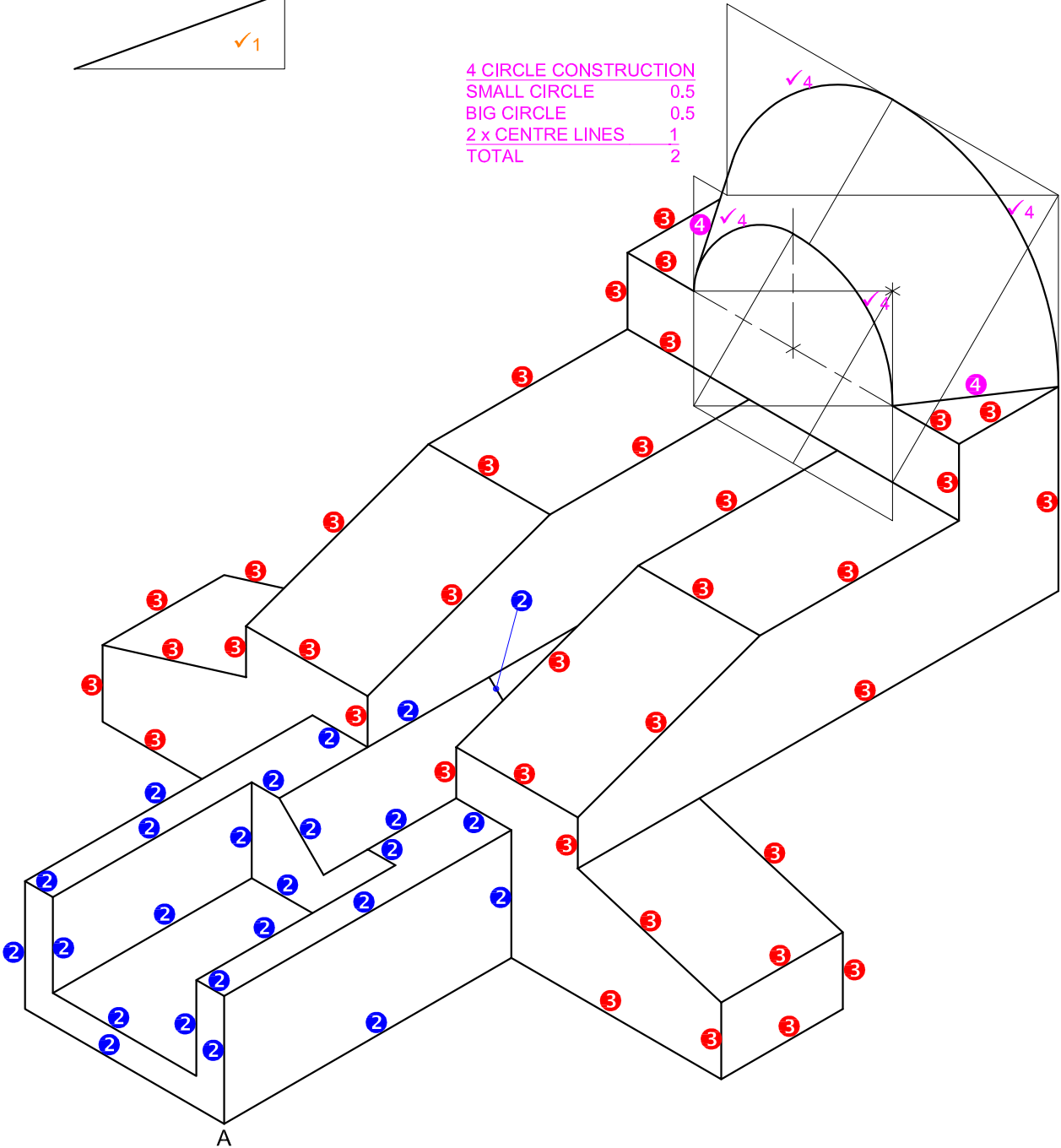
LABEL 0.5
TOTAL 7

ASSESSMENT CRITERIA		
2	GRAPH CONSTRUCTION	7
3	PLOTTING GRAPH + GRAPH CURVES	9
TOTAL		16

PAPER 2 QUESTION 2
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES



4 CIRCLE CONSTRUCTION	
SMALL CIRCLE	0.5
BIG CIRCLE	0.5
2 x CENTRE LINES	1
TOTAL	2



✓1 ORIENTATION / PLACEMENT

ASSESSMENT CRITERIA		
1	PLACING + AUX. VIEW	2
2	FRONT PORTION	12 ¹ / ₂
3	UPPER PORTION	18 ¹ / ₂
4	ARCS + CONSTR. + CL	7
TOTAL		40

PAPER 2 QUESTION 3
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES

PAPER 2 QUESTION 4
GRADE 12
DBE MAY/JUNE 2024
MARKING GUIDELINES

