

SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS

ENGINEERING GRAPHICS AND DESIGN P2 MAY/JUNE 2024

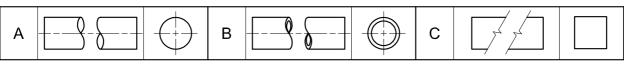
MARKING GUIDELINES

MARKS: 100

These marking guidelines consist of 7 pages.

ANSWERS			
_1	SIPHO	1	
2	www.mecdraw.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	
10	R: V		
17	AUXILIARY VIEW		
18	DIRECTION OF LAY/ CIRCULAR MACHINING		
19	MATERIAL REMOVAL NOT PERMITTED		
20	See below	4	
	TOTAL	30	

ANSWER 20



FREEHAND 1



CIRCLE 1





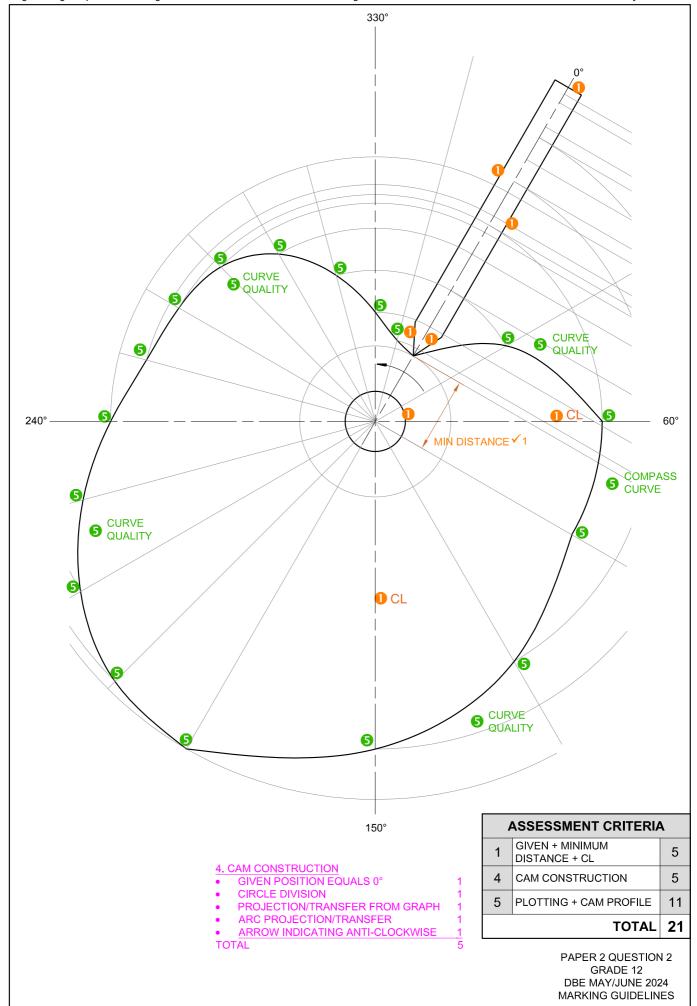
OUTER **CIRCLE**

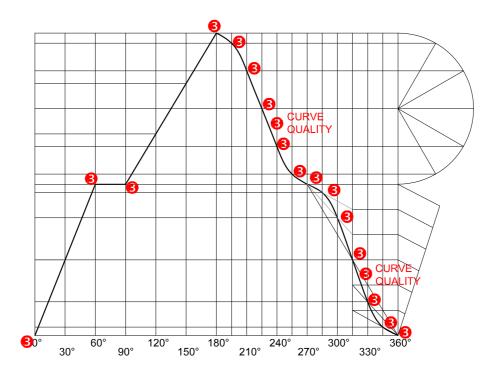


2 x CL

SQUARE / RECTANGLE

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





SCALE 8 mm = 30°

2. GRAPH CONSTRUCTION BASE LENGTH 96 mm

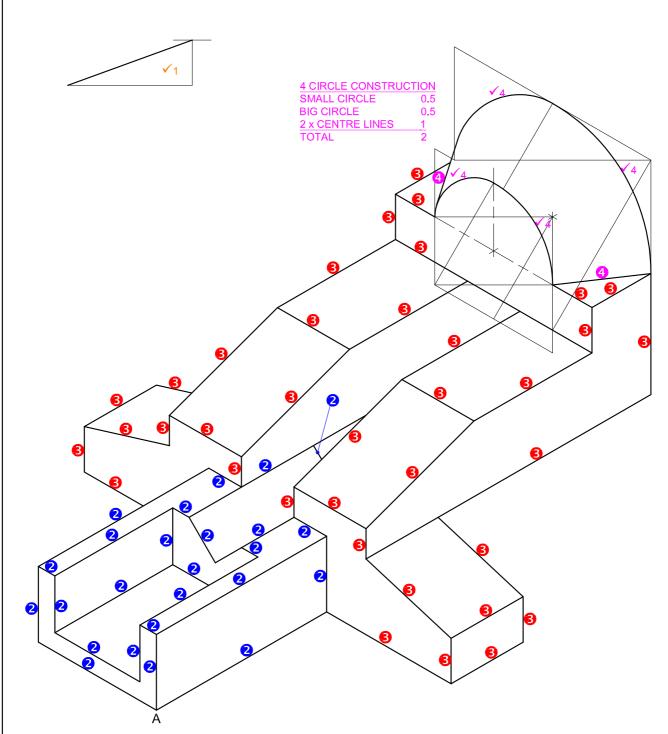
 12 EQUAL DIVISIONS 	1		
TOTAL HEIGHT 80 mm	0.5		
SIMPLE HARMONIC MOTION			
SEMI CIRCLE	0.5		
 CIRCLE DIVISIONS 	0.5		
 15° SUBDIVISIONS 	0.5		
 PROJECTION 	0.5		
UNIFORM ACCELERATION + RETARDATION			
 LINE DIVISION 	0.5		
 15° SUBDIVISIONS 	0.5		

•	15° SUBDIVISIONS	0.5	
•	FIRST ½ CONSTRUCTION	0.5	
•	SECOND $\frac{1}{2}$ CONSTRUCTION	0.5	

LABEL	0.5
TOTAL	7

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

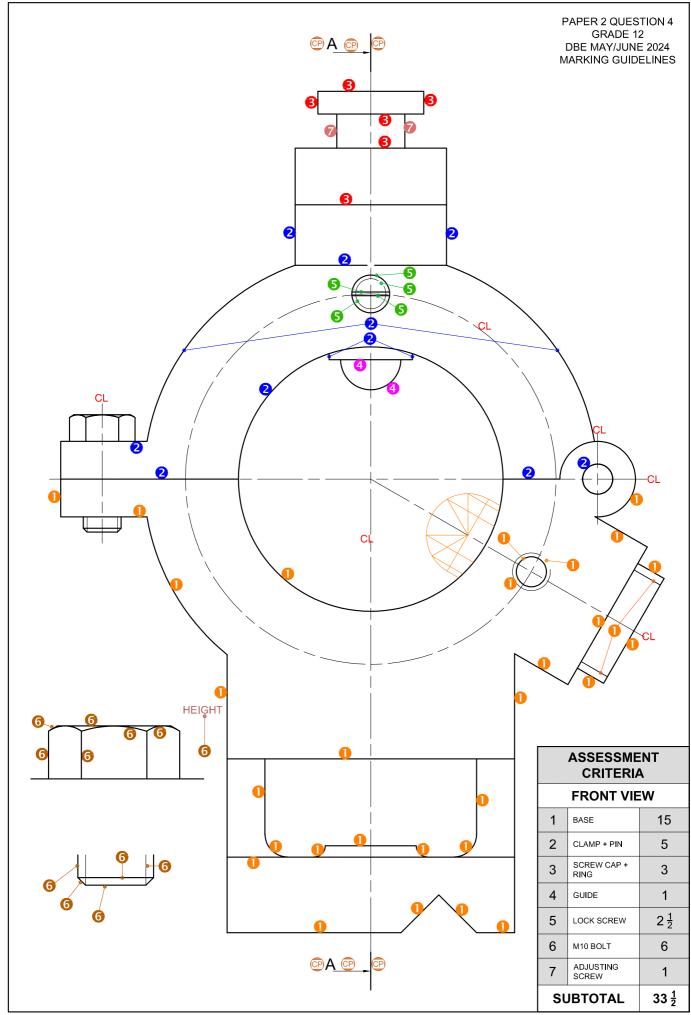
PAPER 2 QUESTION 2 GRADE 12 DBE MAY/JUNE 2024 MARKING GUIDELINES



√1 ORIENTATION / PLACEMENT

	ASSESSMENT CRITERIA	
1	PLACING + AUX. VIEW	2
2	FRONT PORTION	12 ½
3	UPPER PORTION	18 ½
4	ARCS + CONSTR. + CL	7
	TOTAL	40

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



12

7

 $8\frac{1}{2}$

 $6\frac{1}{2}$

3 $4\frac{1}{2}$

3

 $44\frac{1}{2}$

4

8

3

15

