

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P2

FEBRUARY/MARCH 2018

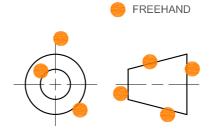
MARKING GUIDELINES

MARKS: 200

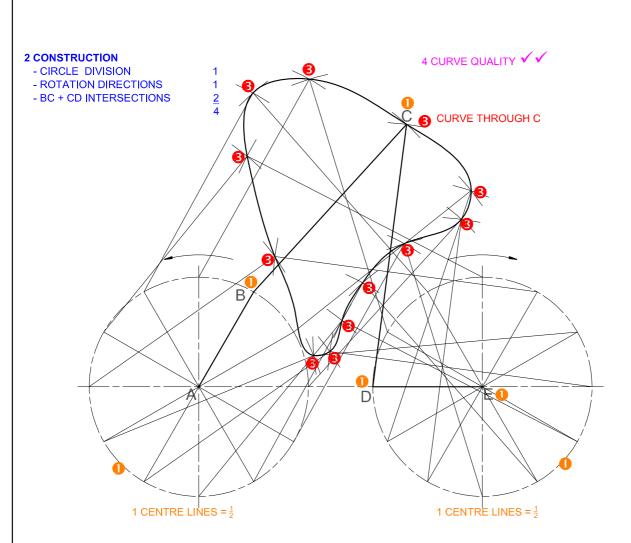
These marking guidelines consists of 7 pages.

ANSWERS				
1	15 / 11 / 2016	1		
2	NYLON	1		
3	www.v4a.co.za	1		
4	4	1		
5	6	1		
6	HALF SECTIONAL FRONT VIEW	1		
7	CURVE OF INTERPENETRATION	1		
8	B: Ø 8 C: 12 D: Ø18	3		
9	NO	1		
10	SYMMETRY	1		
11	CROSS SECTION OF THE SHAFT	2		
12	SQUARE ON A SHAFT OR FLAT FACE ON A CYLINDER	1		
13	4 mm	1		
14	SPECIFIC MATERIAL	1		
15	190	1		
16	PITCH CIRCLE DIAMETER	1		
17	12	1		
18	17.85	1		
19	56 x 1.5 = 84 mm	2		
20	CHROMIUM PLATED	1		
21	See below	4		
	TOTAL	28		

ANSWER 21: Projection symbol

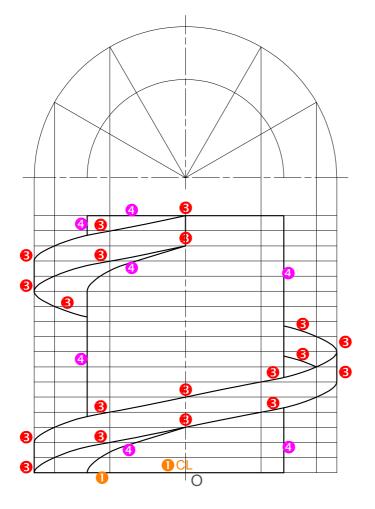


PAPER 2 QUESTION 1 GRADE 12 Feb.-Mar. 2018 MARKING GUIDELINES



PAPER 2 QUESTION 2.1 GRADE 12 Feb.-Mar. 2018 MARKING GUIDELINES

ASSESSMENT CRITERIA 2.1				
1	GIVEN	4		
2	CONSTRUCTION	4		
3	POINTS	6		
4	CURVE QUALITY	2		
	16			



2 CONSTRUCTION

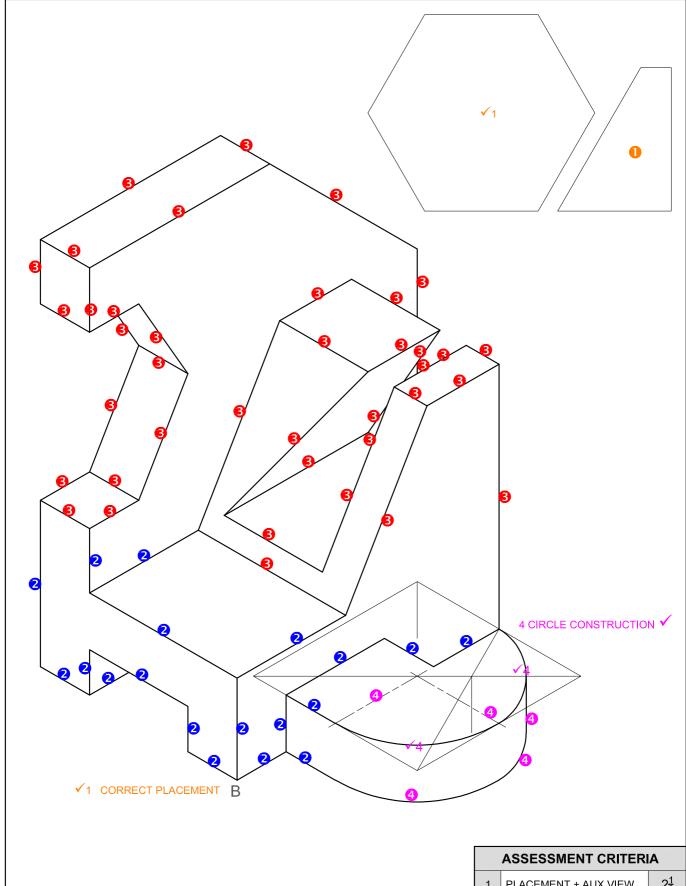
- AUX. CIRCLES	1
- CIRCLE DIVISION	1
- PITCH + 12 DIVISIONS	2
- HORIZONTAL PROJECTION	1
- VERTICAL PROJECTION	1
- DIRECTION	2
	8

5 CURVE QUALITY

- OUTER CURVE - INNER CURVE

PAPER 2 QUESTION 2.2 GRADE 12 Feb.-Mar. 2018 MARKING GUIDELINES

ASSESSMENT CRITERIA 2.2				
1	GIVEN + CL	1		
2	CONSTRUCTION	8		
3	OUTSIDE HELIX	9 <u>1</u>		
4	INSIDE HELIX + SHAFT	$3\frac{1}{2}$		
5	CURVE QUALITY	3		
	SUBTOTAL 2.2	25		



PAPER 2 QUESTION 3 GRADE 12 Feb.-Mar. 2018 MARKING GUIDELINES

ASSESSMENT CRITERIA				
1	PLACEMENT + AUX VIEW	$2\frac{1}{2}$		
2	BASE + FRONT	9 <u>1</u>		
3	UPRIGHT + MIDDLE	19 ¹ / ₂		
4	CIRCLE + CIRCLE CONSTRUCTION + CL	5½		
	TOTAL	37		

