

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE/ NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P2

NOVEMBER 2020

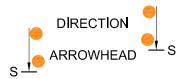
MARKING GUIDELINES

MARKS: 100

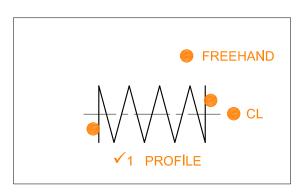
These marking guidelines consist of 8 pages.

ANSWER						
1	TWO-LEVER DOOR LOCK					
2	SIPO	1				
3	2018/09/14	1				
4	DL 04					
5	3	1				
6	13 / 10	1				
7	PERSPEX	1				
8	BOTTOM VIEW	1				
9	A: 134 B: Ø 5 C: 24 D: 88 E:2	5				
10	134°, 135° , 136°	1				
11	SYMMETRY	1				
12	INTERRUPTED VIEW					
13	MULTI PLANE / OFFSET SECTION					
14	See below	2				
15	□9	1				
16	7	1				
17	CROSSED	1				
18	10,29	2				
19	Saa halaw	3				
20	20 See below					
TOTAL						

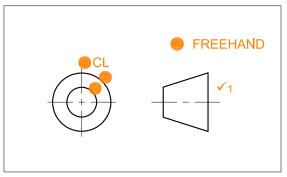
ANSWER 14:



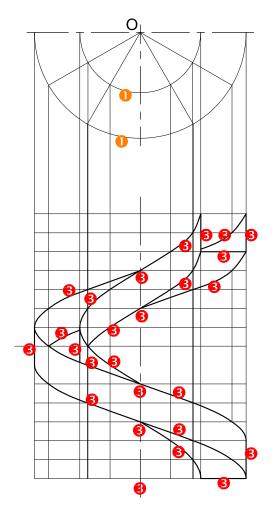
ANSWER 19: Conventional representation for a coil spring



ANSWER 20: Projection symbol



PAPER 2 QUESTION 1 GRADE 12 SC/NSC 2020 MARKING GUIDELINES



2. CONSTRUCTIONS
- CIRCLE DIVISIONS 0.5 - PITCH 0.5 PITCH DIVISIONS 1 VERTICAL PROJECTION • HORIZONTAL PROJECTION 1 <u>2</u> DIRECTION

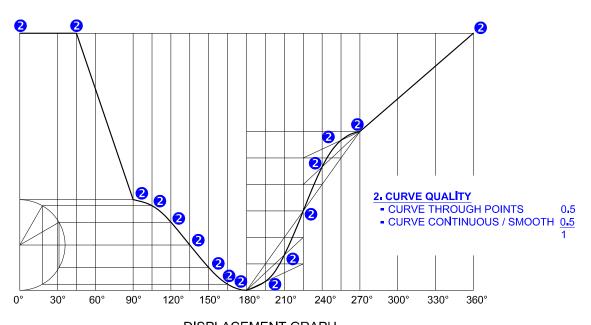
4. CURVE QUALITY
- CURVE THROUGH POINTS
- CURVE CONTINUOUS / SMOOTH

PAPER 2 QUESTION 2.1 GRADE 12 SC/NSC 2020 MARKING GUIDELINE

ASSESSMENT CRITERIA 2.1				
1	GIVEN + CL	1		
2	CONSTRUCTION	6		
3	HELIX	13		
4	CURVE QUALITY	2		
	TOTAL	22		

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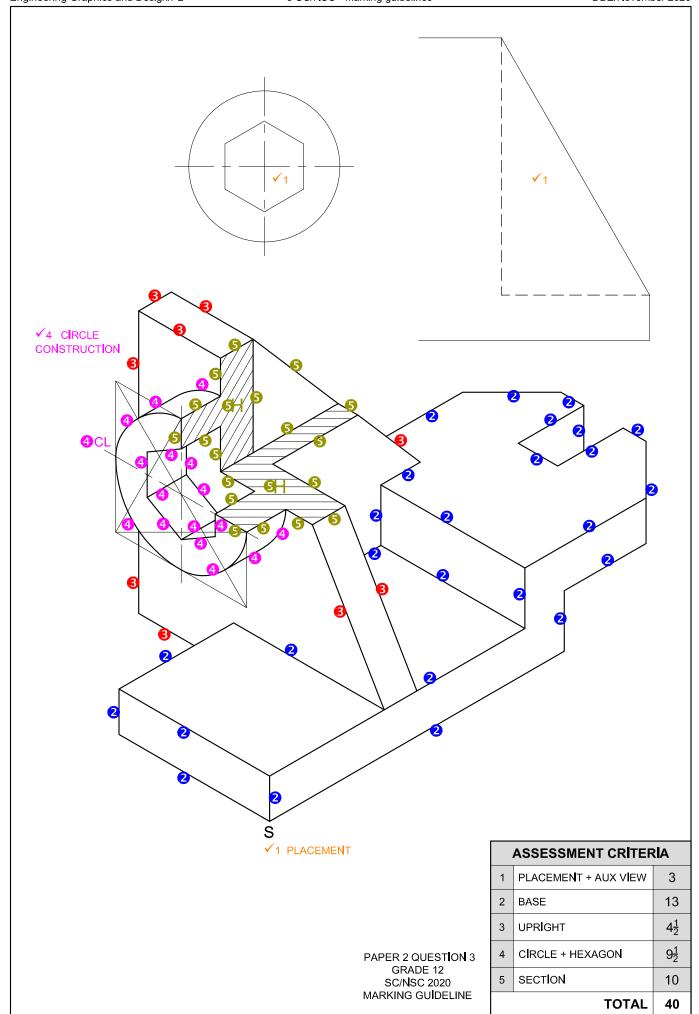
1. CONSTRUCTIONS - LENGTH: 120 mm 0.5 ■ 12 DIVISIONS 0.5 SIMPLE HARMONIC -- 15° SUBDIVISIONS 0.5 -- SEMI CIRCLE 0.5 -- CIRCLE DIVISION 0.5 -- HORIZONTAL PROJECTION 0.5 **UNIFORM ACCELERATION & RETARDATION** -- 15° SUBDIVISIONS 0.5 -- LINE DIVISION 0.5 -- FIRST HALF CONSTRUCTION 0,5 -- SECOND HALF CONSTRUCTION 0.5 LABELING 6

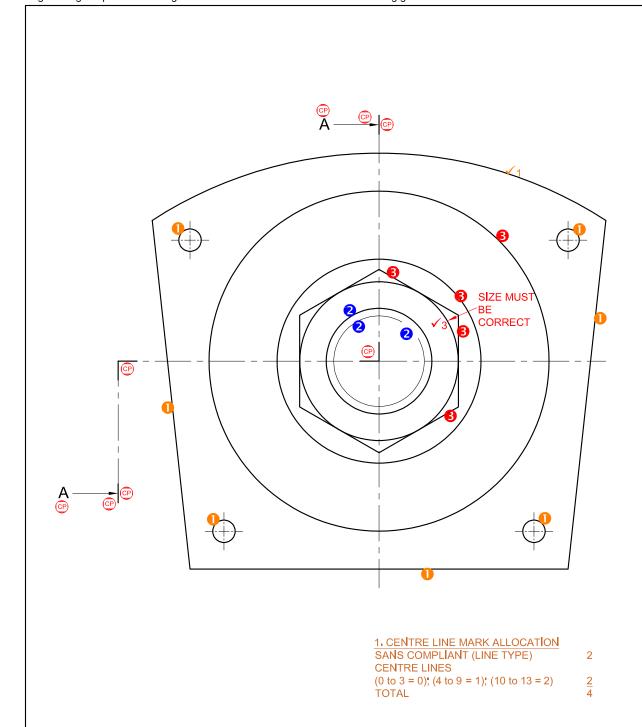


DISPLACEMENT GRAPH SCALE 360°: 120 mm

PAPER 2 QUESTION 2.2 GRADE 12 SC/NSC 2020 MARKING GUIDELINE

ASSESSMENT CRITERIA 2.2				
1	CONSTRUCTION	6		
2	POINTS + CURVES	9		
	TOTAL	15		





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

PAPER 2 QUESTION 4 GRADE 12 SC/NSC 2020 MARKING GUIDELINE

ASSESSMENT CRITERIA						
RIGHT VIEW						
1	BODY	4 <u>1</u>				
2	SHAFT	1½				
3	M28 NUT + FLANGE	$3\frac{1}{2}$				
	$9\frac{1}{2}$					

