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**SA EXAM  
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# basic education

Department:  
Basic Education  
**REPUBLIC OF SOUTH AFRICA**

**NATIONAL  
SENIOR CERTIFICATE**

**GRADE 12**

**ENGINEERING GRAPHICS AND DESIGN P2**

**FEBRUARY/MARCH 2016**

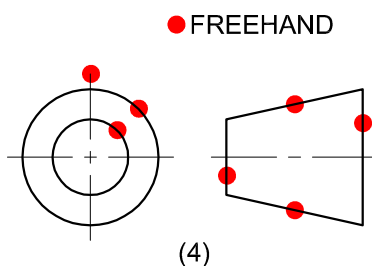
**MEMORANDUM**

**MARKS: 100**

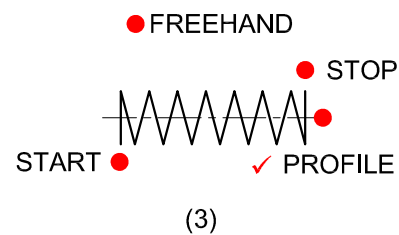
**This memorandum consists of 5 pages.**

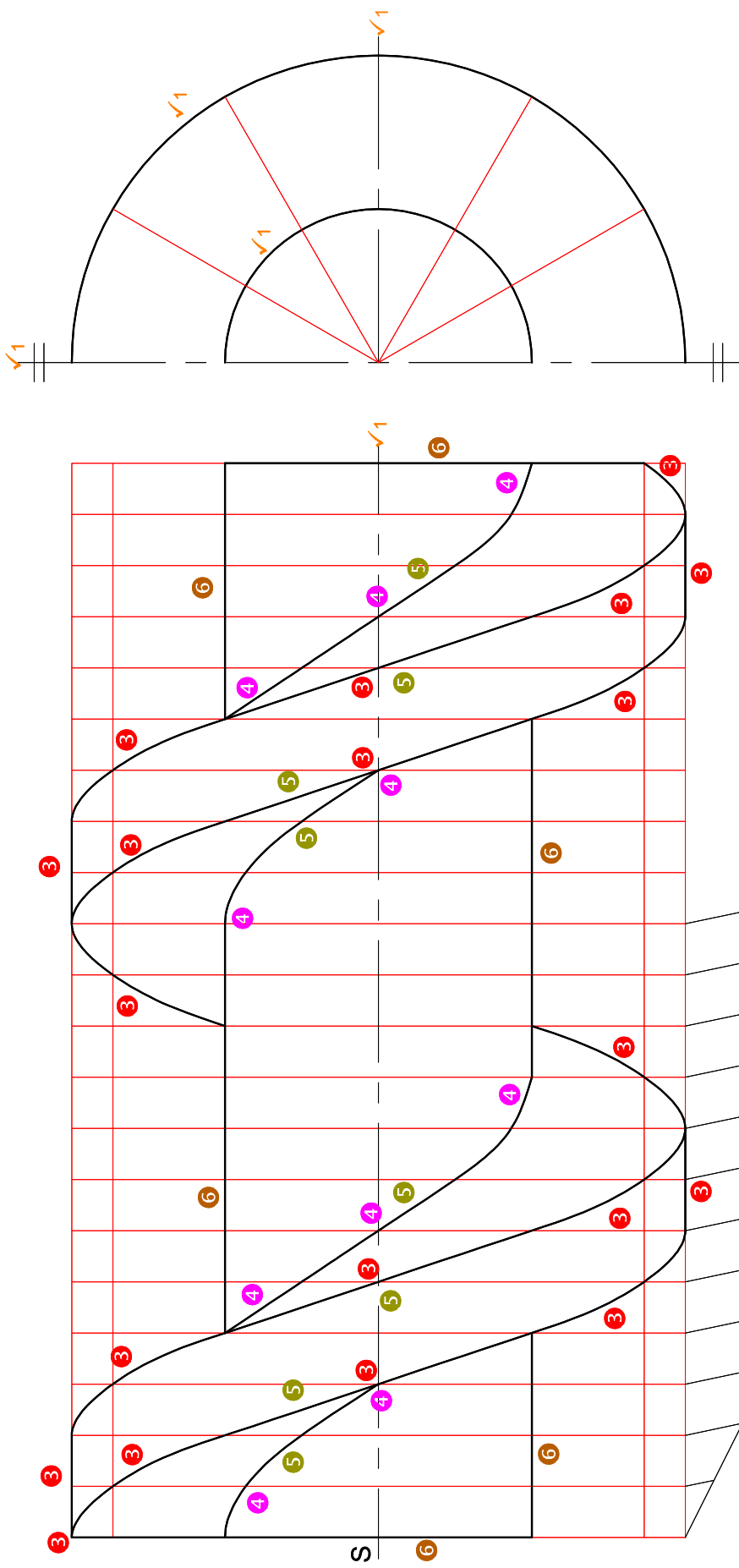
ANSWERS		
1	13/03/15	1
2	VELDDRIFT	1
3	METRIC / MILLIMETRE	1
4	TEMPER	1
5	punch3.dwg	1
6	CAST IRON	1
7	22/04/15	1
8	8	1
9	MULTI PLANE / STEPPED / OFFSET SECTION	1
10	A: 36    B: 70    C: 27    D: AF7,5 / Ø7,5	4
11	GRUB SCREW	1
12	REVOLVED SECTION	1
13	4	1
14	7	1
15	TO STOP THE SPRING FROM SHOOTING OUT OF THE SHAFT / STOP THE SHAFT FROM FALLING OUT	2
16	Ø 3.8	2
17	Ø 4.25	2
18	See below	4
19		3
	<b>TOTAL</b>	<b>30</b>

ANSWER 18



ANSWER 19

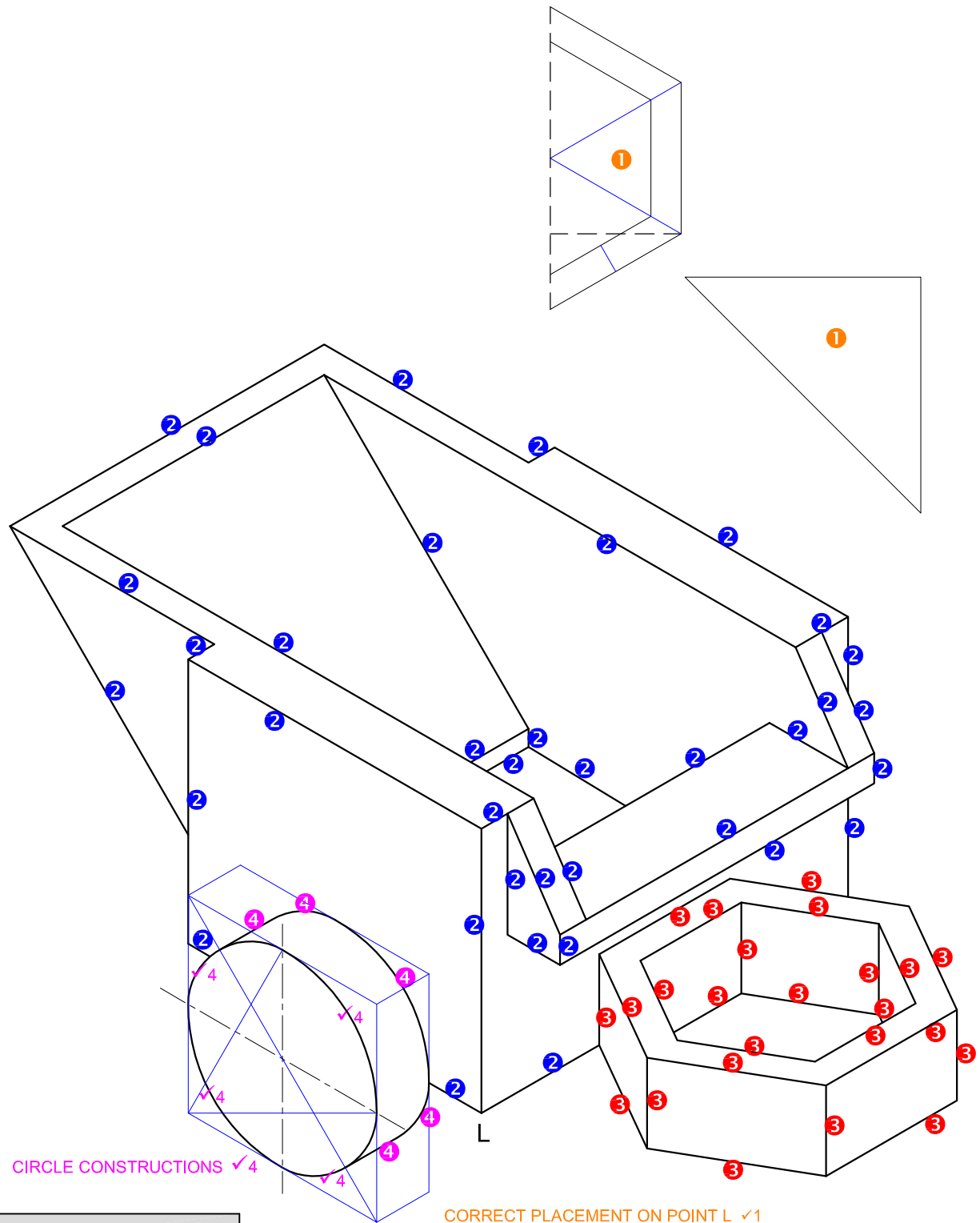




- 2. CONSTRUCTION**
- CIRCLE DIVISION
  - PITCH
  - LINE DIVISION
  - VERTICAL PROJECTION
  - HORIZONTAL PROJECTION
- 1 1 1 1 1 1 5

ASSESSMENT CRITERIA	
1	RIGHT VIEW + CENTRE LINES
2	CONSTRUCTION
3	OUTER CURVE POINTS
4	INNER CURVE POINTS
5	CURVE QUALITY
6	CORE
TOTAL	
32	

PAPER 2 QUESTION 2  
GRADE 12  
DBE/Feb.-Mar. 2016  
MEMORANDUM



ASSESSMENT CRITERIA		
1	AUXILIARY VIEWS + PLACING	2
2	ISOMETRIC + NON-ISOMETRIC LINES	18 $\frac{1}{2}$
3	HEXAGON	12
4	CIRCLES + CONSTRUCTION + CENTRE LINES	7 $\frac{1}{2}$
PENALTIES (-)		
TOTAL		40

PAPER 2 QUESTION 3  
 GRADE 12  
 DBE/Feb.-Mar. 2016  
 MEMORANDUM

