STAPEL

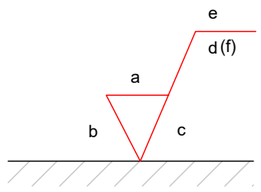

Figure 1

ANSWER 1	
Name:	
a.	d.
b.	e.
c.	f.

QUESTION 1: ANALYTICAL (MECHANICAL)

Given:
The working drawings of a diaphragm regulator with a title block and a table of questions.

Instructions:
With a pencil, complete the table by neatly printing the correct answers in the corresponding answer column. All the questions refer to the accompanying drawings and the title block on diagram sheet A. **[26]**

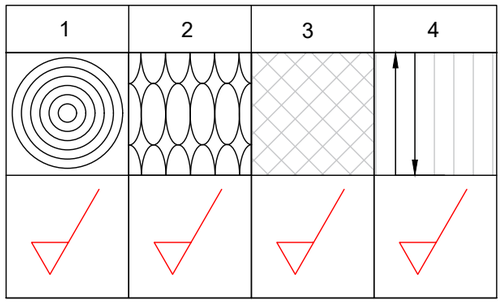

Figure 2

ANSWER 5
1
2
3
4
5
6

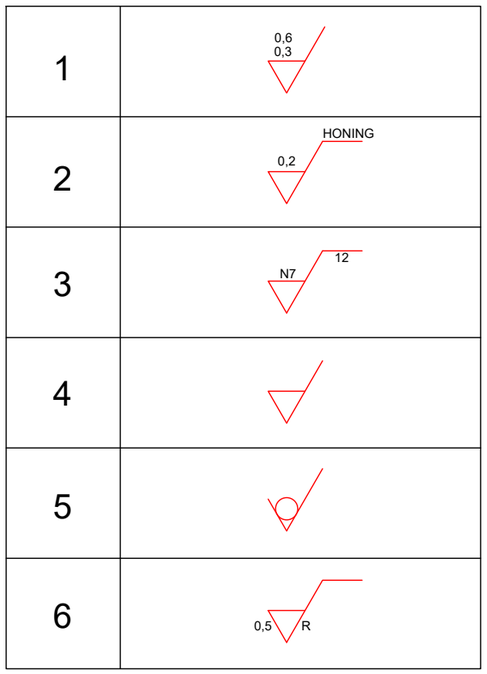

Figure 3

	QUESTIONS		ANSWERS				
1	Name and label Figure 1 (a-f) accordingly.				4		
2	With reference to Figure 2 showing the direction of lay, link the number on the drawing with the correct symbol in the column to the right of this question and label each of the symbols accordingly.		MULTI DIRECTIONAL		1		
			PERPENDICULAR TO PLANE		1		
			CIRCULAR PATTERN		1		
			CROSSED PATTERN		1		
3	List ANY four(4) production methods that can be used in the engineering filed.		CHEMICAL or HONING or GRINDING or MACHINING or LAPPING or PLATING Any 4		4		
4	Refer to the machining and surface texture symbols in Figure 3 alongside and give the meaning of each symbol respectively.	1			1		
		2			1		
		3			1		
		4			½		
		5			½		
		6			1		
5	In the space provided, answer each question by neatly drawing the required symbol in freehand.	1	**Remove material** with a **limit of 1,6 parallel** to the plane of projection.		1		
		2	Machine to **allowance of 5mm**.		1/2		
		3	The surface must be machined by **turning** and to a **roughness value of 0,4µ**.		1		
		4	Machine to a **roughness value of 6,3** to be measured over a **sample length of 10**.		1		
		5	Remove material between an **upper limit of 0,5** and **lower limit of 0,3**.		1		
		6	Machine by **grinding** to a **value of 0,6** measured over a **sample length of 15mm** with a **variance of 0,2**.		1 ½		
	TOTAL				25		

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