

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. [23]

QUESTIONS		ANSWERS		
1	On which date was this drawing approved?	1		
2	Who designed the clamp device?	1		
3	What treatment process must be applied on the clamp device?	1		
4	What is the name of the drawing file?	1		
5	How many clamp devices should be manufactured?	1		
6	What is VIEW 1 called?	1		
7	What is the size of the sphere shaped handle?	1		
8	What is the dimension height of the connector flanges at view 1?	1		
9	What is the purpose of the line indicated at B?	1		
10	What size of bolts is needed to secure the clamp device to a work surface?	1		
11	What is the total width of the clamp device?	1		
12	Who drew the drawing?	1		
13	What material is used to manufacture the clamp device?	1		
14	On what date was the drawing drawn?	1		
15	How many parts make up the clamp device?	1		
16	What is the maximum jaw slide distance of the clamp device?	1		
17	What scale is indicated for the drawing?	1		
18	What drawing program was used to draw the drawing?	1		
19	Which manufacturing company will manufacture the clamp device?	1		
20	Which SI measuring unit is used for all dimensions on this drawing?	1		
TOTAL		20		

FILE NAME: LMG 7.62 MM	MATERIAL: CAST IRON	ALL DIMENSIONS ARE IN MILLIMETERS	
DRAWING NUMBER: 101	FINISHING: CHROME PLATING DRAWING PROGRAM: AUTOCAD 2016 Scale 1:1	DRAWN BY: R SECHABA	2017/06/22
CLAMP DEVICE DUP CONTRACTORS 17 VERRE WAY SENEKAL	ALL UNSPECIFIED RADII ARE R3.	CHECKED: J TSEPANG	2017/07/25
Design by: STEM ENGINEERING WORKS	Manufacturer: CAST WORLD	APPROVED BY: DJ SMALL	2018/05/10
 education Department of Education FREE STATE PROVINCE	TITEL: CLAMP DEVICE	Contact detail: 33 Kolbe Avenue Prieska 1039 www.zuis.co.za. Contact Number: 089 000 2598	Manufacture 100 Clamp Devices

NOTES:
Use a M7 size bolt to join the 4 connector flanges of the clamp device to a work surface.
Maximum jaw slide distance of clamp device: 50mm.

MECHANICAL ANALYTICAL	ESTIMATED TIME FOR COMPLETION	15 MIN	GRADE 10	NAME & SURNAME		TASK 4.4	PAGE 19
	YOUR TIME OF COMPLETION	MIN					