



QUESTION 1: ANALYTICAL (MECHANICAL)

Given:
Two views of an adaptor plate with a title block and a table of questions.

Instructions:
Complete the table below by neatly printing the answers to the questions, which all refer to the accompanying drawings and the title block. [30]

QUESTIONS		ANSWERS	
1	What is the title of the drawing?		1
2	On what date was the drawing checked?		1
3	Who approved the drawing?		1
4	What is the drawing number?		1
5	If a scale of 1:5 were used, what would a dimension of 10 mm read?		1
6	How many surfaces on the component require machining?		1
7	What process must be applied to achieve the required finish?		1
8	As what type of mechanical drawing can the views of the adaptor plate be classified?		1
9	What would VIEW 2 be called?		1
10	What is the thickness of the rib marked A?		1
11	Determine the dimensions at: B C D E		4
12	What is the linear distance between holes 1 and 2?		1
13	What type of symbol is shown at 3?		1
14	What does the circle on the symbol at 4 mean?		1
15	What type of section is shown at 5?		1
16	What is the permissible tolerance on the dimensions of the component?		1
17	Determine the tolerance for the dimension at 6.		2
18	In the box below, draw, in neat freehand, the symbol for the projection system used.		4
19	In the box below, draw, in neat freehand, the SABS 0111 convention for the given internal screw thread.		5
TOTAL			30

				ALL DIMENSIONS ARE IN MILLIMETRES.	
12-06-09	MUSA	CHANGE MACHINING SPEC'	B		
07-06-09	MUSA	DECREASE RIB THICKNESS	A		
DATE	CHANGED BY	REVISION DESCRIPTION	No.	ALL SPECIFIED SURFACE FINISHES ARE: 0,05 GRINDING	
DRAWING No. Q1/DOE/10		MATERIAL: CAST ALUMINIUM		THE TOLERANCE ON DIMENSIONS IS ± 0.3, UNLESS OTHERWISE SPECIFIED.	
FILE NAME: FM-P2-2010		HEAT TREATMENT: NONE			
<div>eBHAYI</div> <div>ENGINEERING PTY (LTD)</div> <div>73 ACACIA AVENUE PORT ELIZABETH 6001</div> <div> 041 645 7820</div>				DRAWING PROGRAM: AUTOCAD 2009	
				DRAWN BY: AB MORKEL	20/05/09
				CHECKED BY: Z KHUMALO	25/05/09
TITLE <div>ADAPTOR PLATE</div>				APPROVED BY: PP STEYN	07/06/09
				SCALE: 1:2	
					



18

SYMBOL

19

SABS 0111 convention

EXAMINATION NUMBER	
EXAMINATION NUMBER	2