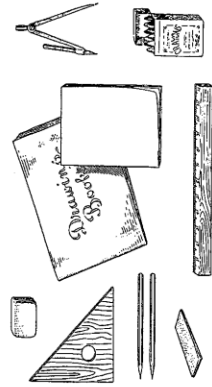


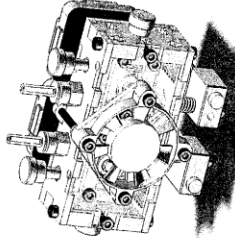
HILLCREST HIGH SCHOOL

MIDYEAR EXAMINATION

ENGINEERING, GRAPHICS & DESIGN



GRADE 11
2017
PAPER 2



MARKS: 135 **TIME: 2 HOURS**

INSTRUCTIONS TO CANDIDATES

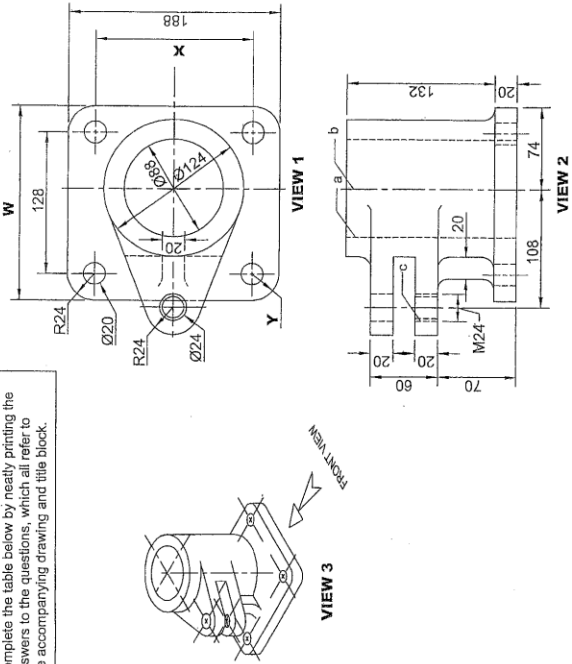
1. This question paper consists of 4 pages including the cover page and 2 questions.
2. All questions must be answered.
3. Unless specified otherwise, all questions are in First Angle Orthographic Projection.
4. Unless specified otherwise, all questions are to be completed to a scale of 1:1.
5. All answer sheets must be re-stapled in numerical order, even questions that are not attempted/blank.
6. All construction work must be shown, even if a stencil was used.
7. Print your NAME neatly on each page.
8. Use only the drawing sheets provided.
9. Your drawings should reflect neatness and accuracy.
10. All dimensions or detail not given may be assumed in good proportion.

QUESTION	SECTION	MARK	MODERATE	MAXIMUM
1	MECHANICAL ANALYTICAL			30
2	MECHANICAL ASSEMBLY			105
TOTAL				135
SYMBOL				100

NAME: _____

GIVEN:
The working drawing of a SUPPORT BRACKET, 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 drawing and title block.



DIYARA ENGINEERING

"create-enhance-sustain"
est. 2010. Florida, Durban
P.O.Box 8910 12, Problem Mkhize Road Durban 4001
Florida Road
4000
www.diyara.co.za
Tel: (031) 303 6047
diyara@gmail.com
Fax: (031) 303 9551

DRAWN BY: MYEN	DRAWN DATE: 19-06-2011	MATERIAL: MILD STEEL	REVISION 1: DESIGN [22-05-2011]
CHECKED BY: MIKA	CHECKED DATE: 22-08-2011	NO REQUIRED:	REVISION 2: COLOUR [25-05-2011]
APPROVED BY: EDDIE	APPROVED DATE: 28-05-2011	SI UNIT: MILLIMETRES	TOLERANCES: ± 0.04
DRAWING NO.: 2201 - NM	DRAWING SYSTEM: AutoCAD 2011	TITLE: SUPPORT BRACKET	MACHINING: 0.5/√x
REFERENCE NO.: 4545 / 361G	DRAWING SCALE: 1:5	Unspecified fillet radii	R4
MACHINING COMPANY: BAT PTY			

1	What is the scale of the drawing ?	1
2	Who checked this drawing ?	1
3	On what date was this drawing approved ?	1
4	What is the name of this component ?	1
5	What is the email address of this company ?	1
6	When was DIYARA ENGINEERING established ?	1
7	Where is DIYARA ENGINEERING based ?	1
8	What is the drawing number ?	1
9	Why was the second revision done?	1
10	From what material is the component made ?	1
11	Identify view 1.	1
12	Identify view 2.	1
13	Determine the dimension at W ?	1
14	Determine the dimension at X ?	1
15	Determine the dimension at Y ?	1
16	What line type is used at a ?	1
17	What line type is used at b ?	1
18	What does C indicate?	1
19	What quantity must be manufactured ?	1
20	What drawing system was used ?	1
21	What type of drawing is shown at view 3 ?	1
23	What is the main function of this company ?	1
24	What is the website address of this company ?	1
25	How old is this company ?	1
26	What is the length of the component ?	1
27	What is the total height of the component ?	1
28	What system of projection has been used ?	1
29	Draw, freehand, the projection symbol ?	2

Name: _____
Teacher: _____

30

QUESTION 2: MECHANICAL ASSEMBLY

ASSESSMENT CRITERIA		
TOP VIEW		
1	BASE	12
3	SHAFT	2
4	PULLEY	2
6	COLLAR	1
7	PIN	6
8	SECTION A-A	3
9	CENTRE LINE	8
10	HATCHING	13
SUBTOTAL		47

ASSESSMENT CRITERIA		
SECTIONAL FRONT VIEW		
1	BASE	13
2	M 16 NUT	5
3	SHAFT	15
4	PULLEY	14
5	BUSH	4
6	COLLAR	2
7	PIN	1
8	LABEL	2
THIRD ANGLE		2
SUBTOTAL		58
TOTAL		105

Name: _____
 Teacher: _____