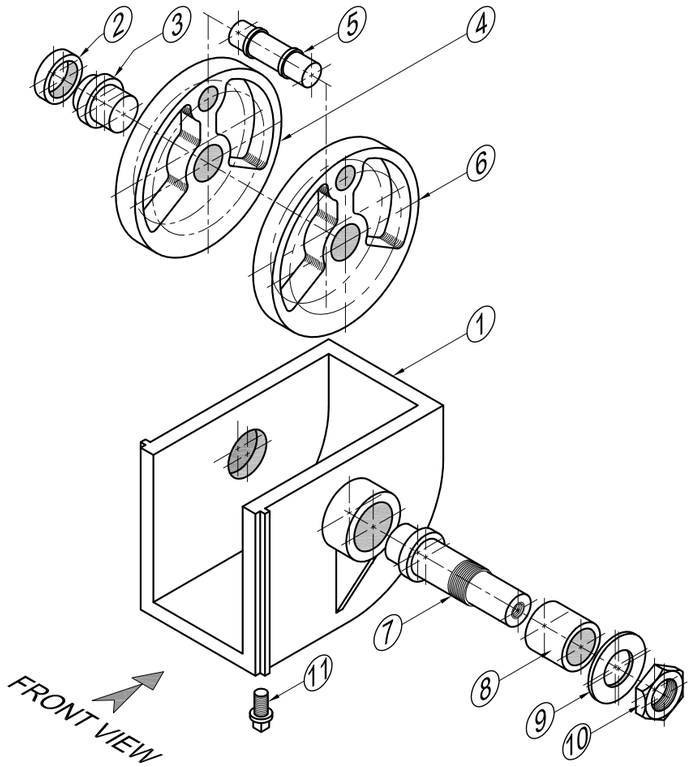
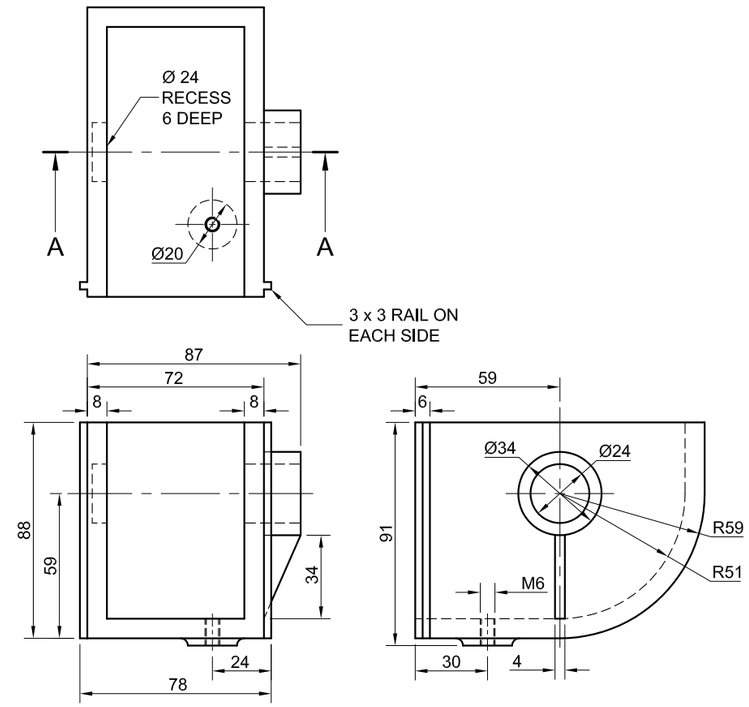
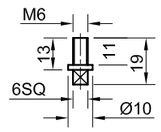


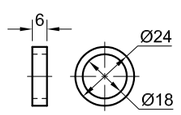
EXPLODED ISOMETRIC DRAWING



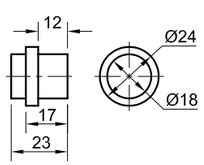
HOUSING [1]



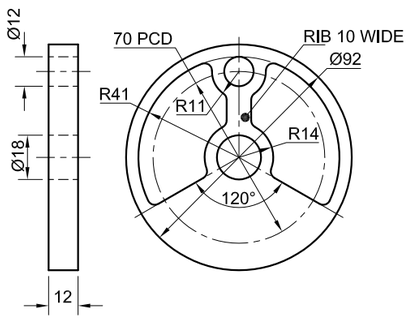
DRAIN PLUG [11]



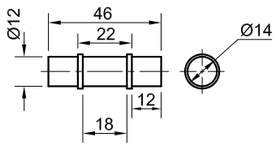
BUSH A [2]



SHORT SHAFT [3]

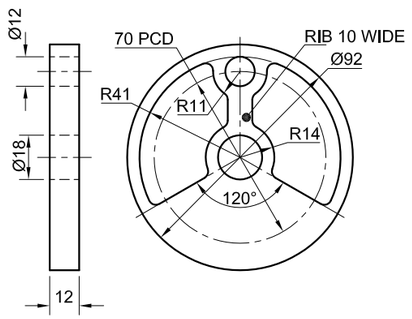


LEFT FLYWHEEL [4]

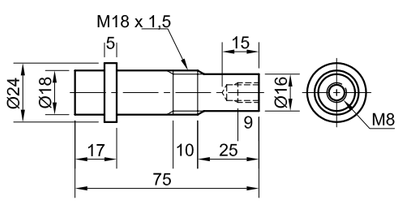


JOURNAL [5]

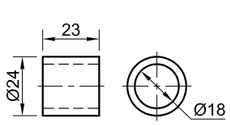
NOTE:
SHOW THE JOURNAL IN THE HIGHEST POSITION.



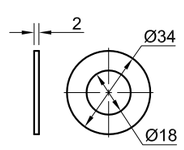
RIGHT FLYWHEEL [6]



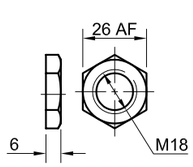
DRIVE SHAFT [7]



BUSH B [8]



WASHER [9]



SPECIAL NUT [10]

QUESTION 4: ASSEMBLY DRAWING

Given:

- The exploded isometric drawing of the parts of a crank assembly, showing the position of each part relative to all the others
- Orthographic views of each of the parts of the crank assembly

Instructions:

- Answer this question on page 6.
- Draw, to scale 1:1 and in third-angle orthographic projection, the following views of the assembled parts of the crank assembly:
  - **4.1 The sectional front view** on cutting plane A-A, as seen from the direction of the arrow shown in the exploded isometric drawing. The vertical cutting plane passes through the centre line of the assembly, as shown on the top view of the housing.
  - **4.2 The right view.** NO hidden detail is required.
- ALL drawings must comply with the guidelines contained in the *SABS 0111.*

Add the following features to the drawing:

- The cutting plane A-A
- Label the sectional view: SECTION A-A.

NOTE:
Show THREE faces of the special nut and ALL necessary construction. **[94]**

PARTS LIST		
PART	QUANTITY	MATERIAL
1. HOUSING	1	CAST IRON
2. BUSH A	1	BRONZE
3. SHORT SHAFT	1	MILD STEEL
4. LEFT FLYWHEEL	1	CAST IRON
5. JOURNAL	1	MILD STEEL
6. RIGHT FLYWHEEL	1	CAST IRON
7. DRIVE SHAFT	1	MILD STEEL
8. BUSH B	1	BRONZE
9. WASHER	1	MILD STEEL
10. SPECIAL NUT	1	MILD STEEL
11. DRAIN PLUG	1	MILD STEEL

eBHAYI
ENGINEERING PTY (LTD)

73 ACACIA AVENUE
PORT ELIZABETH
6001
041 645 7820

CRANK ASSEMBLY

ALL DIMENSIONS ARE IN MILLIMETRES.

ALL UNSPECIFIED RADII ARE 3.