



**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**FACULTY OF SCIENCE AND TECHNOLOGY EDUCATION**  
**DEPARTMENT OF ART DESIGN AND TECHNOLOGY EDUCATION**

**BACHELOR OF TECHNOLOGY EDUCATION HONOURS DEGREE IN DESIGN  
TECHNOLOGY**

**PDT 2129 CAD/CAM Applications**

**Main Examination**

**November 2024**

This examination consists of 4 pages

**Time** : **3 hours 30 minutes**

**Total marks** : **100**

**Lecturer** : **Dr E. Mhlanga**

**Special Requirements:** -Computers to be loaded with AutoCAD software  
-Blank Compact Disks (CDs/ DVD) for each candidate  
-A4 size bond paper.  
- Computer Laboratory

**INSTRUCTIONS**

1. Answer **Question One** and any other **Three** questions
2. Each question carries **25 marks**
3. Sub -division marks are shown in brackets
4. Begin each question on a fresh page
5. Save documents as PDF and DWG

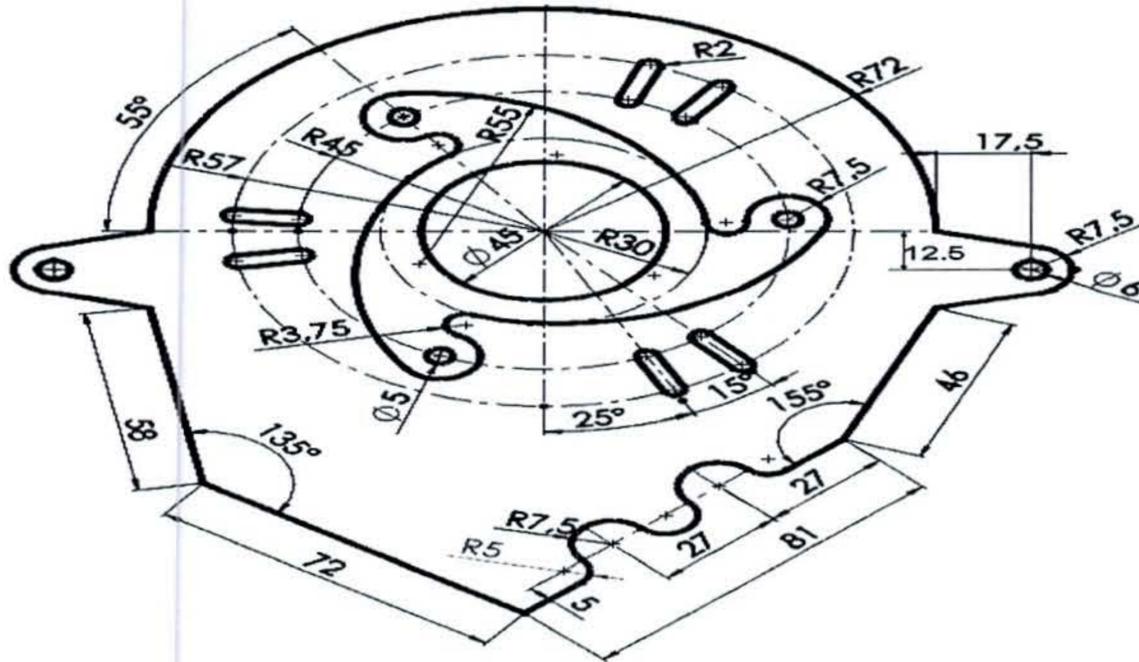
**MARK ALLOCATION**

<b>QUESTION</b>	<b>MARKS</b>
1.	25
2.	25
3.	25
4.	25
5	25
6	25
<b>TOTAL</b>	<b>100</b>

**Question 1**

Using AutoCAD, reproduce the diagram below and present it on a 2D workspace.

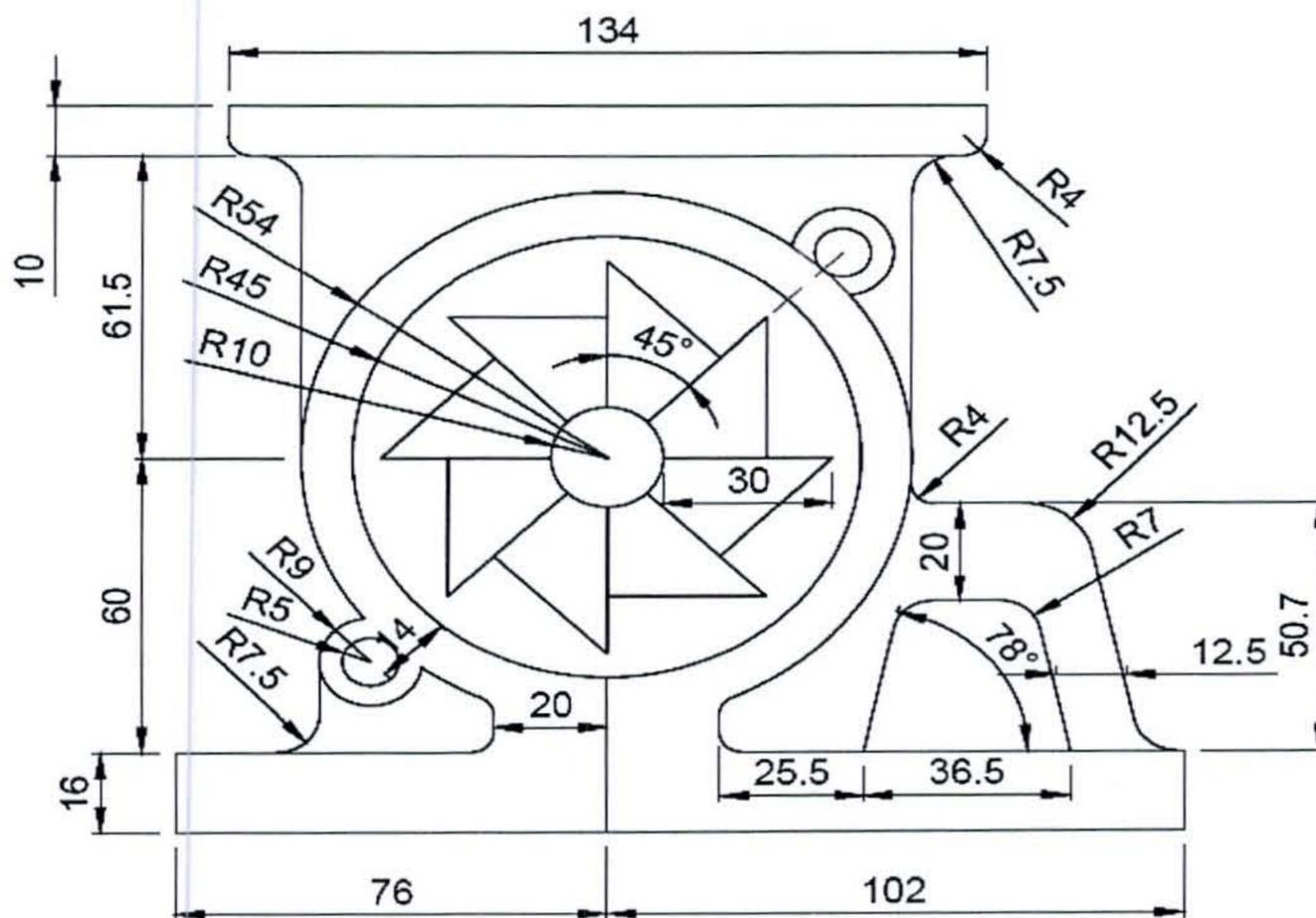
[25marks]



**Question 2**

Draw the diagram in AutoCAD and present it on a 2D work space.

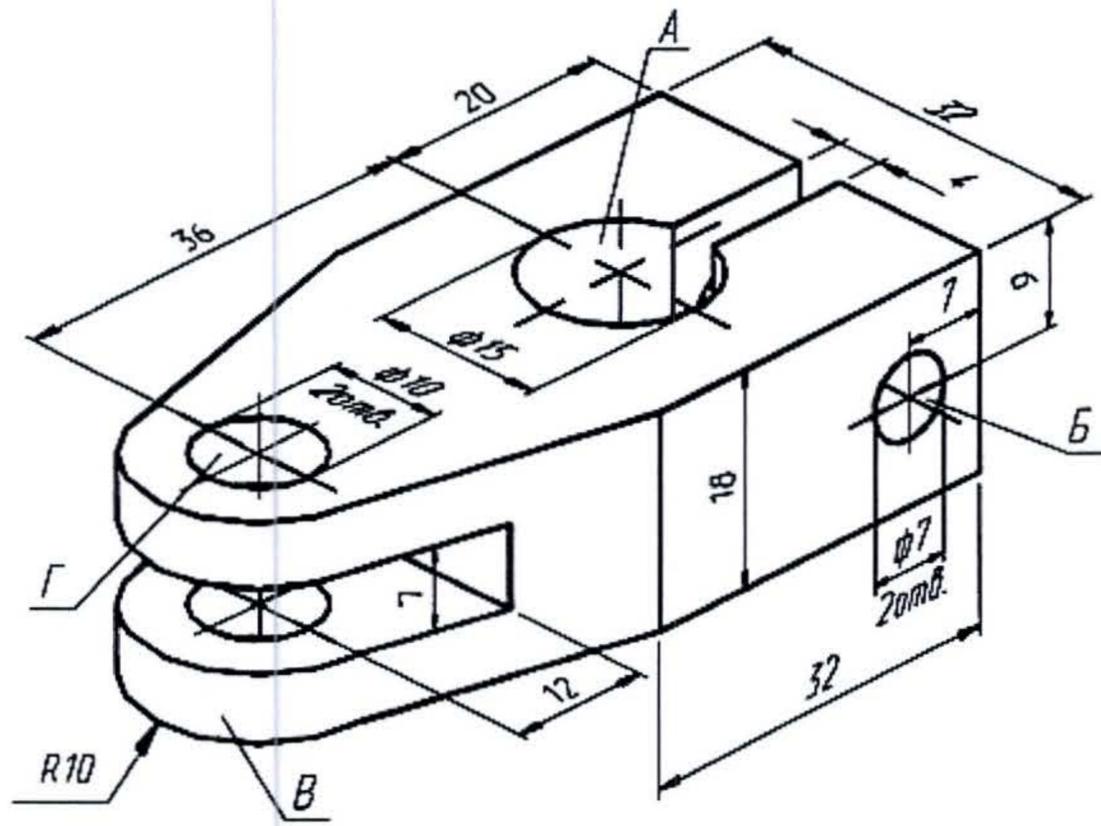
[25 marks]



### Question 3

Draw the diagram below and present it on a 2D workspace with dimensions, use AutoCAD.

[25marks]



### Question 4

Using a software of your choice, design a flyer advertising a new programme introduced at the National University of Science and Technology incorporate the four main colours.

[25marks]

### Question 5

One of your sisters gave birth to a baby boy. Using AutoCAD or Corel draw design a card for congratulatory message. Add colour.

[25marks]

