



# **DIPLOMA IN MECHANICAL ENGINEERING**

**CENTRALIZED QUESTION BANK**

**4020640 - Solid Modelling Practical**

**DIRECTORATE OF TECHNICAL  
EDUCATION GOVERNMENT OF  
TAMILNADU**

## **DIPLOMA END SEMESTER / YEAR EXAMINATION – 2023**

**Course** : Mechanical Engineering

**Subject** : Solid Modelling Practical

**QP Code** : 4020640

**Time** : 3 Hours **Date** :

**Session:**

**Max Marks:** 100

### **Answer the Following Question**

1. a) Draw the given 3D drawing of Model 2 using 3D modelling commands. (30 Marks)  
b) Draw the part models of Petrol Engine connecting Rod. Create an assembly drawing of the components and set the drawing views for Petrol Engine Connecting Rod. (60 Marks)
2. a) Draw the given 3D drawing of Model 4 using 3D modelling commands. (30 Marks)  
b) Draw the part models of Pipe Vice. Create an assembly drawing of the components and set the drawing views for Pipe Vice. (60 Marks)
3. a) Draw the given 3D drawing of Model 6 using 3D modelling commands. (30 Marks)  
b) Draw the part models of Revolving Centre. Create an assembly drawing of the components and set the drawing views for Revolving Centre. (60 Marks)
4. a) Draw the given 3D drawing of Model 1 using 3D modelling commands. (30 Marks)  
b) Draw the part models of Tail Stock. Create an assembly drawing of the components and set the drawing views for Tail Stock. (60 Marks)
5. a) Draw the given 3D drawing of Model 3 using 3D modelling commands. (30 Marks)  
b) Draw the part models of Crane Hook. Create an assembly drawing of the components and set the drawing views for Crane Hook. (60 Marks)
6. a) Draw the given 3D drawing of Model 5 using 3D modelling commands. (30 Marks)  
b) Draw the part models of Machine Vice. Create an assembly drawing of the components and set the drawing views for Machine Vice. (60 Marks)