



**DIPLOMA IN AUTOMOBILE ENGINEERING**

**CENTRALIZED QUESTION BANK**

**1021234540 - AUTOMOBILE COMPONENT DESIGN**

**DIRECTORATE OF TECHNICAL  
EDUCATION GOVERNMENT OF  
TAMILNADU**

**DIPLOMA END SEMESTER / YEAR EXAMINATION – 2025**

**Course:** Automobile Engineering

**Subject :** Automobile Component Design

**QP Code :** 1021234540

**Time : 3 Hours**

**Date :**

**Session:**

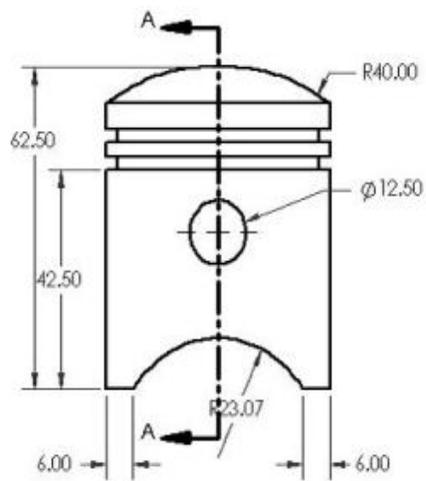
**Max Marks:100**

**Note: Select any one exercise by lot or question paper supplied by the DOTE Exam section shall be used.**

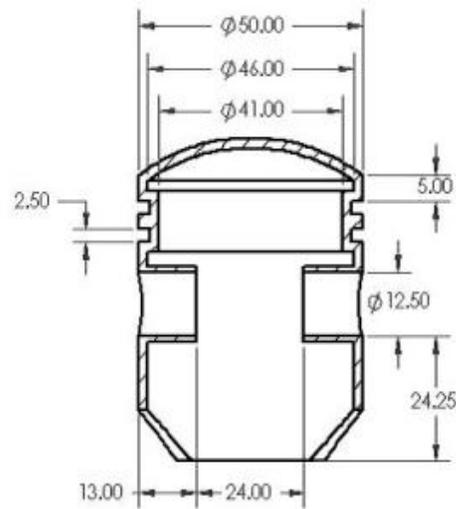
**Answer the following Questions**

- 1. Modelling of piston assembly

**PISTON ASSEMBLY**



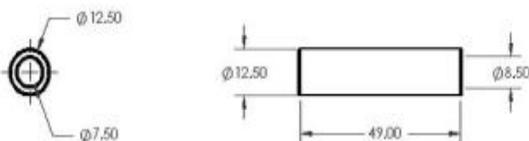
**FRONT VIEW**



**SECTION A-A**

**SECTION VIEW**

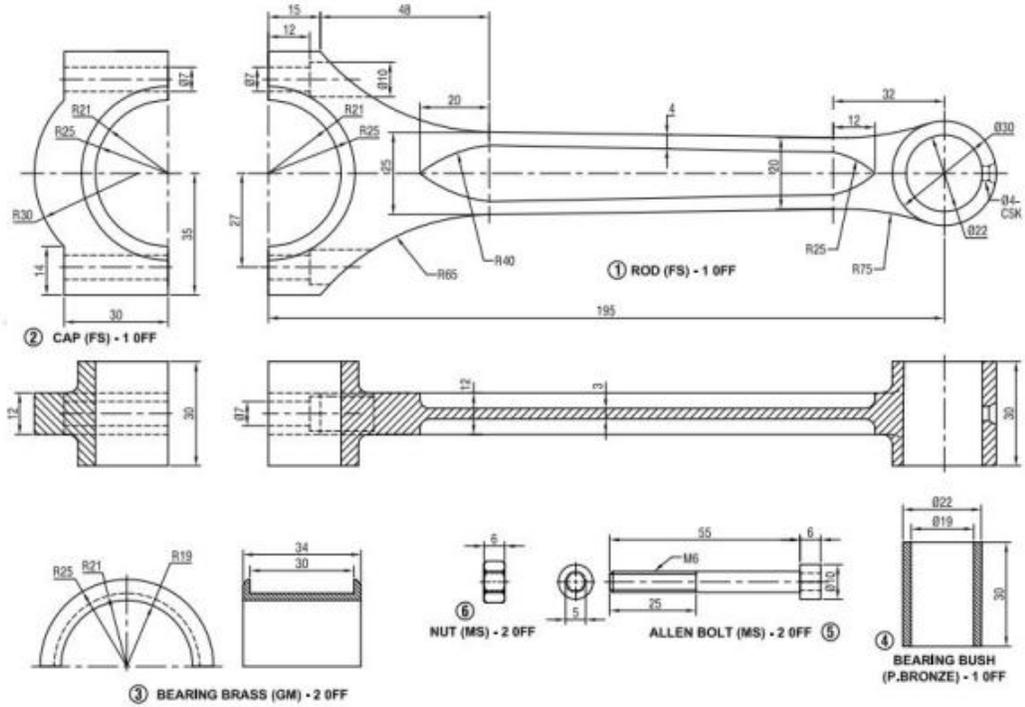
**PISTON PIN**



MISSING DIMENSIONS ARE ASSUMED

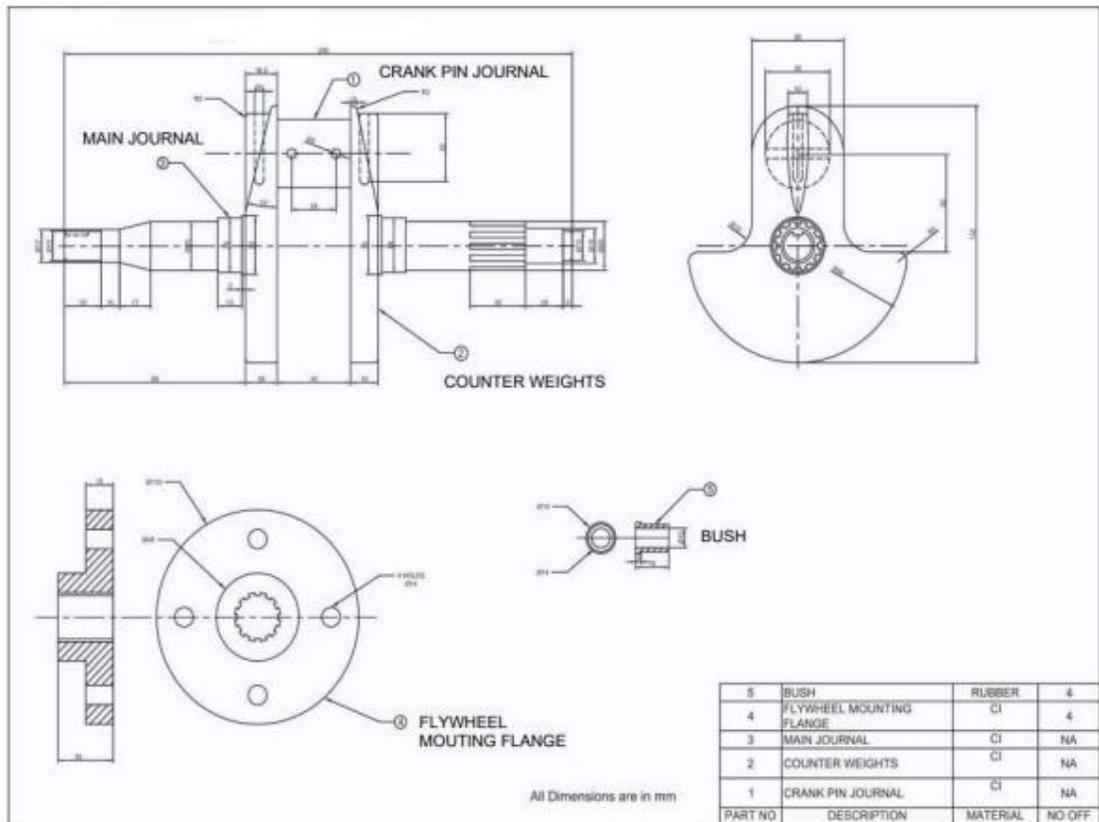
2. Modelling of the connecting rod assembly

# CONNECTING ROD ASSEMBLY

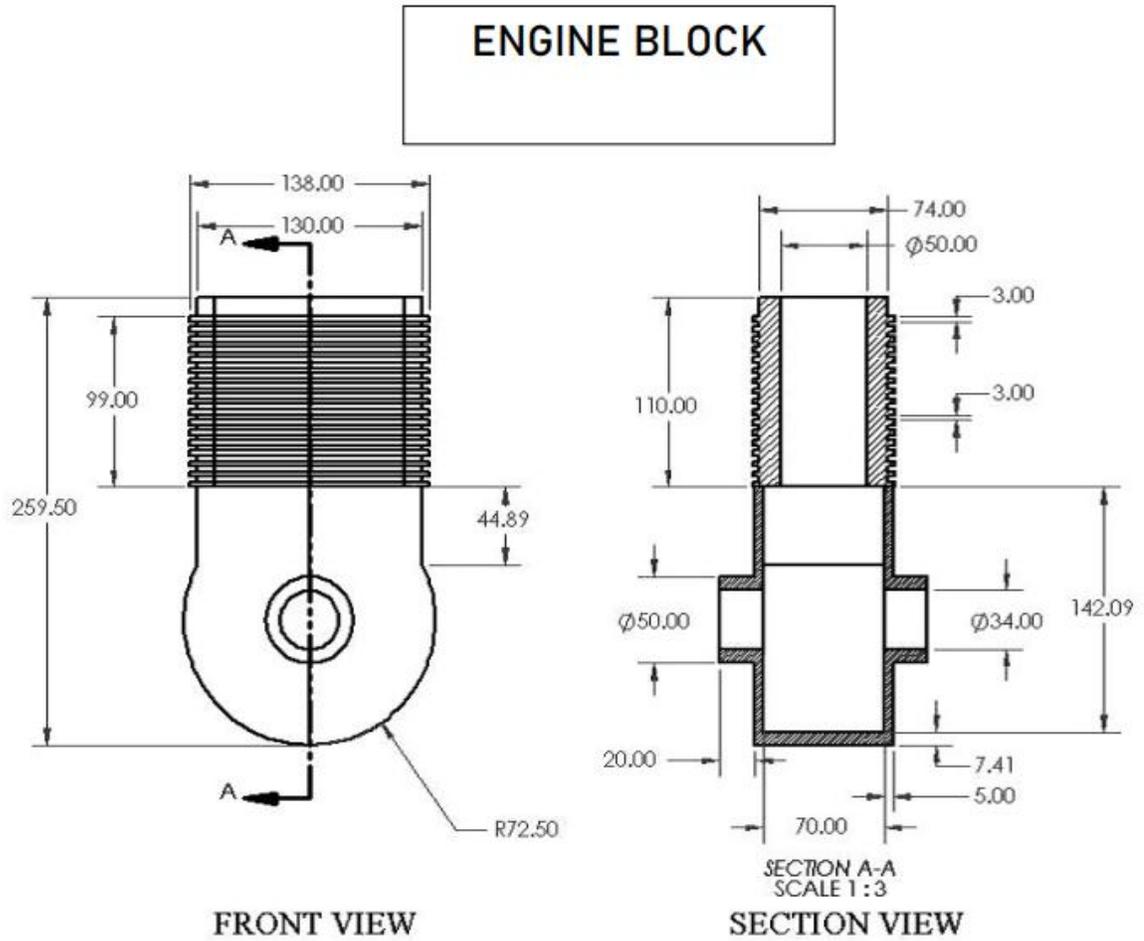


3. Modelling of crank shaft assembly.

# CRANK SHAFT ASSEMBLY



4. Modelling of cylinder block assembly (Single cylinder)



**Allocation of Marks**

SI No	Description	Marks
1	Creation Part Modelling	25
2	Assembled Solid Modelling	25
3	Printout	10
4	Written test(Theory Portions only)	30
5	Viva Voce	10
<b>Total</b>		<b>100</b>