

**II B. Tech I Semester Supplementary Examinations, September - 2021****MACHINE DRAWING**  
(Mechanical Engineering)

Time: 3 hours

Max. Marks: 75

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**Note: Part A: Answer any TWO of the following questions:**  
**PART-B** is compulsory.

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(12.5M×2=25M)

**PART-A**

1. Sketch the following types of keys in two views, as fitted in position between a shaft and the mounting. Choose the shaft diameter as 25 mm and the hub diameter of the mounting as 50 mm:  
(a) hollow saddle key, (b) flat saddle key,  
(c) taper sunk key, (d) single headed feather key
2. Sketch any three types of machine screws of 15 mm diameter.
3. Draw (a) half sectional view from the front, with left half in section and (b) view from above of a footstep bearing, suitable for supporting a shaft of diameter 20 mm.

**PART-B**

4. The components of a petrol engine connecting rod end are shown in Figure 1 (50M)  
Assemble the parts and draw, (i) half-sectional view from the front, with bottom half in section and (ii) view from above.



