S.B. Roll No $\qquad$

## MECHANICAL ENGINEERING DRAWING-II <br> $4^{\text {th }}$ Exam/ M ech./ 9453/ Feb'2021 <br> (For 2018 batch onwards)

Duration: 1.15Hrs.
M.Marks:25

Attempt any one question of the following:
1x25=25
Q1. The details of M achine Vice are given in Figure 1. Assemble the Parts and Draw its following Views:
a. Sectional Front View
15
b. Top View
10

Q2. Draw the profile of involutes teeth for a gear having 24 teeth and circular pitch equal to 32 mm .
Assume a pressure angle of $20^{\circ}$
25
Q3. Draw the profile of cam with following data.
Shaft diameter $=25 \mathrm{~mm}$, Roller Diameter $=12 \mathrm{~mm}$, Lift $=72 \mathrm{~mm}$
Horizontal Distance between Roller Centre and Cam centre $=18 \mathrm{~mm}$
M inimum Distance of roller centre from Cam centre $=35 \mathrm{~mm}$
Q4. Figure 2. Shows the detail of Screw Jack. Assemble the Details and Draw the following views.
a. Right Half-Sectional Front View
15
b. Top view

## 10


S.B. Roll No $\qquad$


Screw Spindle (Qty. 1-M.S.)


FIGURE 2

