



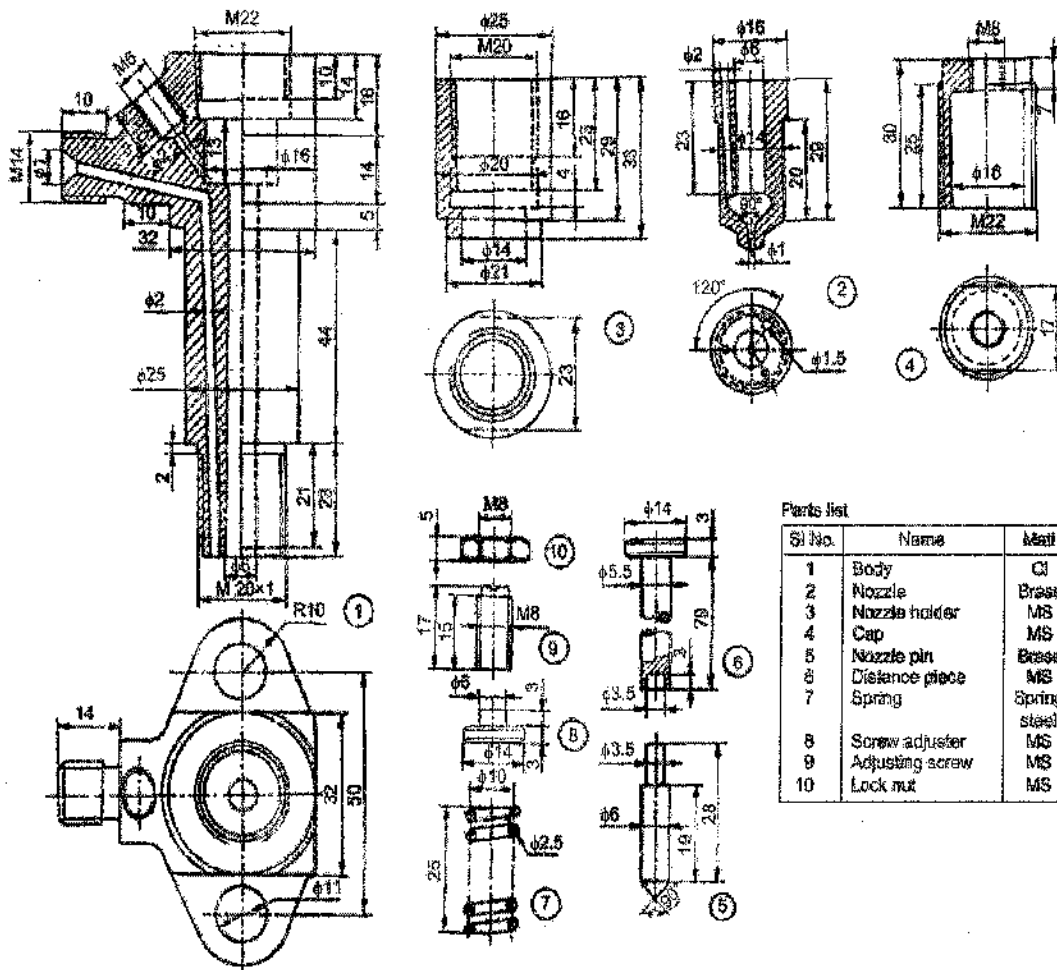
Part A: Answer all the following question:(40 Marks)

1. Sketch a bevel gear, indicating the various terms and parameters.
2. Sketch (a) sectional view from the front and (b) view from the above of solid journal bearing (take shaft diameter = 50 mm.
3. Draw half sectional front view and top view of a 50 mm bushed bearing.

Part B: Assembly drawing: (60 Marks)

Assemble the parts of a fuel injector, shown in Figure and draw,

1. halfsectional view from the front, and 2.view from above.



Parts list

| Sl No. | Name | Matl | Qty |
|--------|-----------------|--------------|-----|
| 1 | Body | CI | 1 |
| 2 | Nozzle | Brass | 1 |
| 3 | Nozzle holder | MS | 1 |
| 4 | Cap | MS | 1 |
| 5 | Nozzle pin | Brass | 1 |
| 6 | Distance piece | MS | 1 |
| 7 | Spring | Spring steel | 1 |
| 8 | Screw adjuster | MS | 1 |
| 9 | Adjusting screw | MS | 1 |
| 10 | Lock nut | MS | 1 |