Kafrelshiekh University Faculty of Engineering Second Term Exam First Year Mechanical Engg. Dept.,



Date: 17 June, 2021 Machines Drawing

Time allowed: Three hours

Full Mark: 100 marks

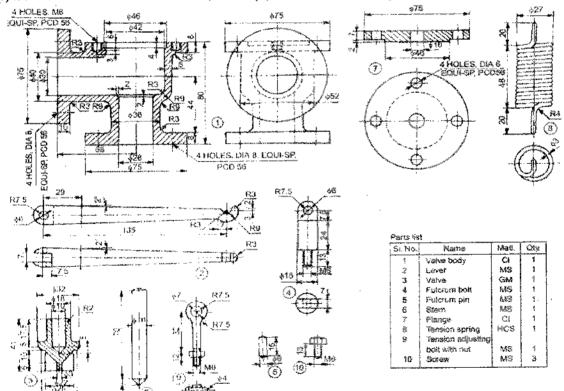
## Part A: Answer all the following question: (40 Marks)

- 1. Sketch (a) sectional view from the front and (b) view from the side of a spur gear with a web.
- 2. Draw (a) sectional view from the front and (b) view from the side of a hydraulic pipe joint of Socket and Spigot type, to connect two pipes, each of diameter 50 mm.
- 3. Sketch (a) sectional view from the front and (b) view from the above of solid journal bearing ( take shaft diameter = 50 mm).

## Part B: Assembly drawing: (60 Marks)

Assemble the parts of a spring loaded relief valve, shown in the shown figure and draw the following views:

(i) Sectional view from the front, and (ii) View from the right.



Good luck