



College of Engineering & Technology

Department: Mechanical Engineering

Marks: 15

Lecturer: Dr. Rola Afify

Time: 8:30 - 10:00

Course Code: ME464

Date: 16/3/2016

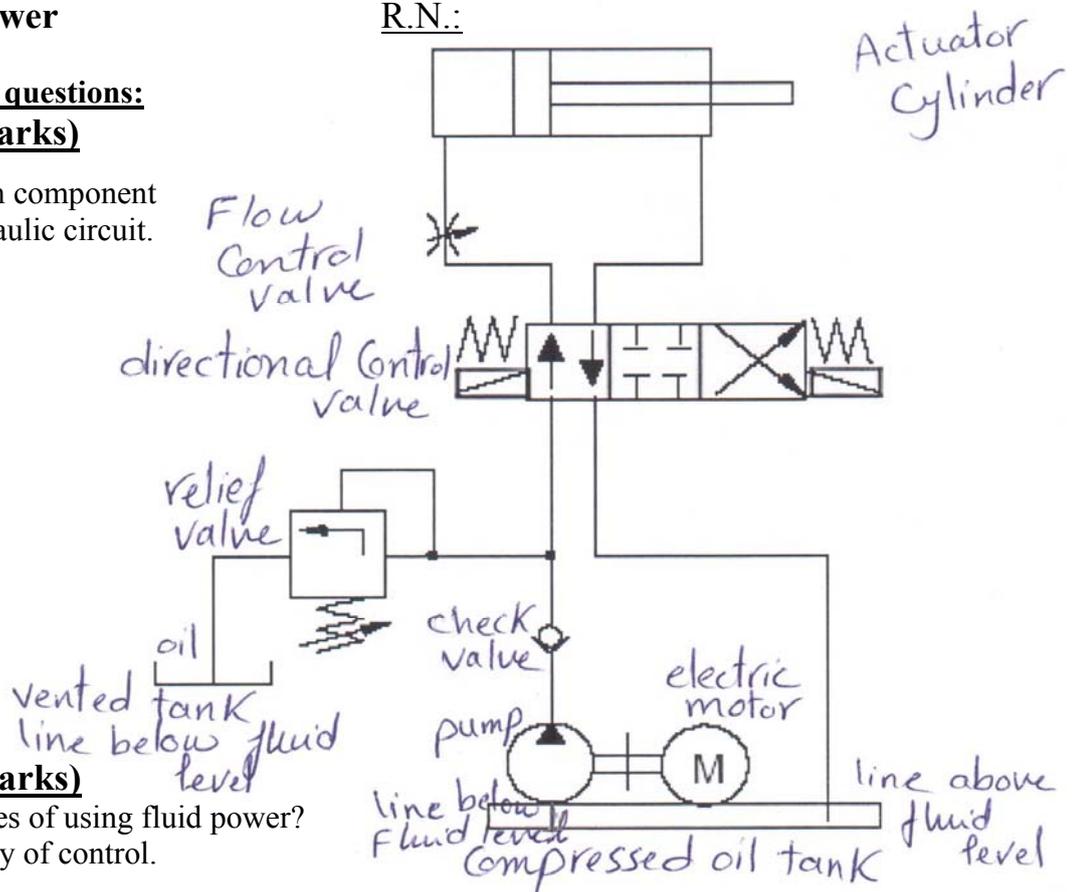
Name: **Model Answer**

R.N.:

Answer the following questions:

Question one (8 marks)

Write the name of each component in the following Hydraulic circuit.



Question two (7 marks)

What are the advantages of using fluid power?

- 1 – Ease and accuracy of control.
- 2 – Multiplication of force.
- 3 – Constant force or torque.
- 4 – Simplicity, safety and economy.
- 5 – Protection against overloads.
- 6 – Infinitely variable speed control.
- 7 – Have the highest horsepower - per - weight ratio of any known power source.

What are the functions of an Oil tank?

- 1 – Storing oil
- 2 – Cooling oil
- 3 – Separation of air from oil
- 4 – Draining of impurities from the bottom of tank.