

Beni Swief Technological University

Egyptian-Korean Faculty of Technological Industry and Energy

Program of Autotronics



Anomones

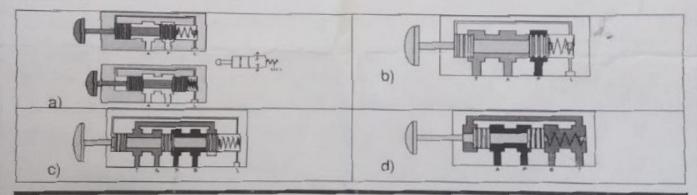
Final Exam: Basics of hydraulics

Answer All Questions (Five Questions)

Question (1): Put "True" or "False";

1-	Pressure sensors are used for regulating the level of fluid and detecting fluid leakages.	False
2-	A non-return valve is a single- way valve that allows fluid to flow only in 1 direction.	
	acting Cylindrica has have one port	trae
4-	In a hydraulic circuit, the power control units are pumps	Calse
	The symbol is 4/3 pressure valve.	true

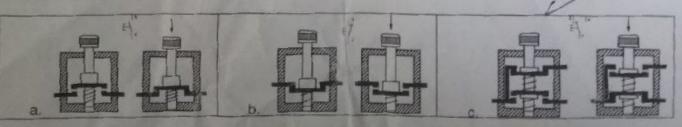
Question (2): Define the directional control valves then explain the normal and actuated positions for each of the following:



Question (3): Explain the differences between the following: -

- 1- Hydraulic and pneumatic system.
- 2- Advantages and disadvantages of a pneumatic actuator.
- 3- Hydrauluc pumps and actuators.
- 4- Relief valves and safety valves.
- 5- Piston, vane and gear pumps.

Question (4): Compare between the mechanism of working for the following contacts:



Question (5): Define the relay and how does it work?