

**Seventh Semester B.E. Degree Examination, Dec. 06 / Jan. 07**  
**Mechanical Engineering**  
**Hydraulics and Pneumatics**

Time: 3 hrs.]

[Max. Marks:100

**Note :** 1. Answer any FIVE full questions.  
 2. Draw neat sketches wherever necessary.

- 1 a. Name the six basic components required in a hydraulic circuit. (03 Marks)  
 b. In the hydraulic press shown in Fig.1(b), a force of 100 N is exerted on the small piston. Determine the upward force on the large piston. The area of the small piston is  $50 \times 10^2 \text{ mm}^2$  and the area of the large piston is  $500 \times 10^2 \text{ mm}^2$ . Also find the distance moved by the large piston if the small piston moves by 100 mm.

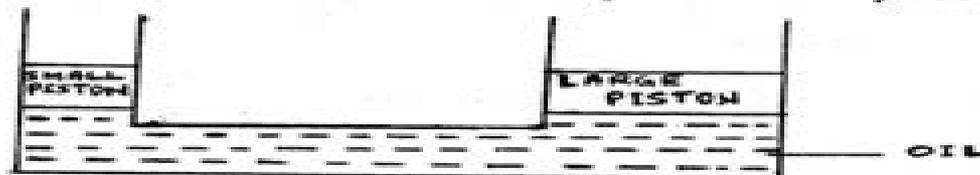


Fig.1(b)

- c. Explain the operation of a vane pump with a neat sketch. (07 Marks)  
 (10 Marks)
- 2 a. Explain the operation of a gear motor with a neat sketch. (08 Marks)  
 b. A pump supplies oil at  $0.0016 \text{ m}^3/\text{sec}$  to a 40 mm diameter double acting hydraulic cylinder. If the load is 5000 N (extending or retracting) and the rod diameter is 20 mm, find the  
 i) Cylinder kW power during the extending stroke  
 ii) Cylinder kW power during the retracting stroke. (05 Marks)
- c. A hydrostatic transmission, operating at 70 bars pressure has the following characteristics :

Pump	Motor
$V_D = 82 \text{ cm}^3$	-
$\eta_v = 82\%$	$\eta_v = 92\%$
$\eta_m = 88\%$	$\eta_m = 90\%$
$N = 500 \text{ rpm}$	$N = 400 \text{ rpm}$

Find the i) Displacement of the motor    ii) Motor output torque. (07 Marks)

- 3 a. Explain simple pressure relief valve with a neat sketch. (08 Marks)  
 b. A pressure relief valve has a pressure setting of 140 bars. Compute the kW power loss across the valve if it returns all the flow back to the tank from a  $0.0016 \text{ m}^3/\text{sec}$  pump. (04 Marks)  
 c. A double acting cylinder is hooked up in a regenerative circuit. The relief valve setting is 105 bars. The piston area is  $130 \times 10^2 \text{ mm}^2$  and the rod area is  $65 \times 10^2 \text{ mm}^2$ . If the pump flow is  $0.0016 \text{ m}^3/\text{sec}$ , find the cylinder speed and load carrying capacity for the i) Extending stroke    ii) Retracting stroke. (08 Marks)

# Hydraulics Question Paper

**JA Banks**



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