

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.

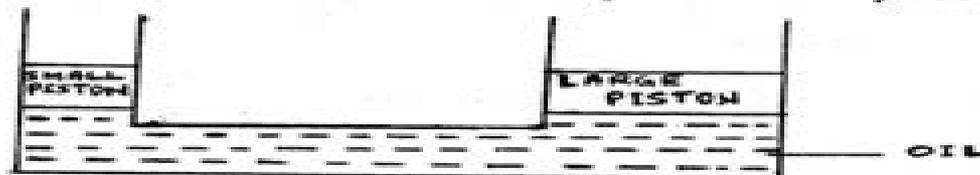


Fig.1(b)

- 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

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National Hydraulic Laboratory United States. Congress. House. Committee on Rivers and Harbors, 1928

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Documents of the Assembly of the State of New York New York (State). Legislature. Assembly, 1911

Annual Report of the State Engineer and Surveyor on the Canals of New York New York (State). State Engineer and Surveyor, 1911 1859 accompanied by volume of maps with title Engravings of plans profiles and maps illustrating the standard models from which are built the important structures on the New York State canals

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web we summarize the epidemiological and clinical studies on the health benefits of fruits and vegetables finally we discuss the role of fiber in fruits and vegetables in disease prevention adv nutr 3 506 516 2012 introduction diets high in fruits and vegetables are widely recommended for their health promoting properties fruits and

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web oct 30 2023 two handfuls of blueberries or raspberries one heaped tablespoon of dried fruit such as sultanas currants or raisins three heaped tablespoons of vegetables such as sweetcorn or peas three heaped tablespoons of any pulse beans peas or lentils one cereal bowl of raw leafy greens such as lettuce watercress or spinach