

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.

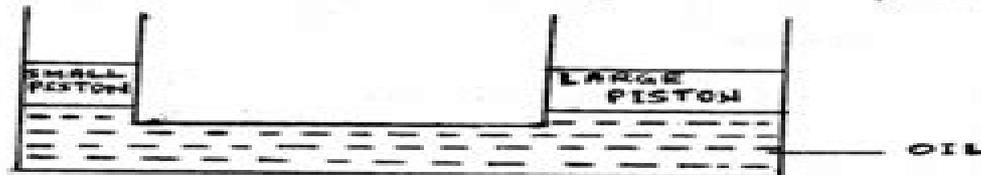


Fig.1(b)

- 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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Surveyor**

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Hydraulics and Pneumatics Controls Shanmuga Sundaram, 2006 For B E B Tech students of Anna and Other Technical Universities of India

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Annotated Bibliography on the Geologic, Hydraulic, and Engineering Aspects of Tidal Inlets John H. Barwis, 1976

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The Fundamental Principles of Hydraulics V. B. Priyani, 1961

Fluid Mechanics And Machinery Durgaiah D. Rama, 2007 This Book Presents A Thorough And Comprehensive Treatment Of Both The Basic As Well As The More Advanced Concepts In Fluid Mechanics The Entire Range Of Topics Comprising Fluid Mechanics Has Been Systematically Organised And The Various Concepts Are Clearly Explained With The Help Of Several Solved Examples Apart From The Fundamental Concepts The Book Also Explains Fluid Dynamics Flow Measurement Turbulent And Open Channel Flows And Dimensional And Model Analysis Boundary Layer Flows And Compressible Fluid Flows Have Been Suitably Highlighted Turbines Pumps And Other Hydraulic Systems Including Circuits Valves Motors And Ram Have Also Been Explained The Book Provides 225 Fully Worked Out Examples And More Than 1600 Questions Including Numerical Problems And Objective Questions The Book Would Serve As An Exhaustive Text For Both Undergraduate And Post Graduate Students Of Mechanical Civil And Chemical Engineering Amie And Competitive Examination Candidates As Well As Practising Engineers Would Also Find This Book Very Useful

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

Hydraulics Research, 1971

Annual Report New York (State). State Engineer and Surveyor, 1911

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

Annual Report of the State Engineer and Surveyor for the Fiscal Year Ending ... New York (State). State Engineer and Surveyor, 1911

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