

**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.

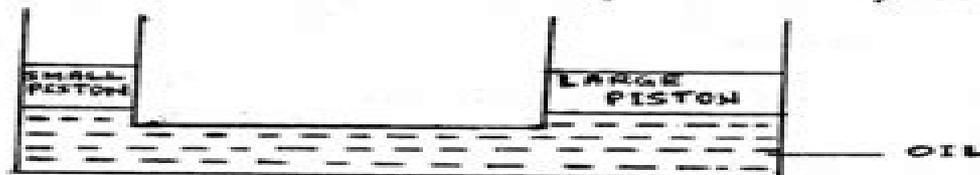


Fig.1(b)

- 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

**Durgaiah D. Rama**



## Hydraulics Question Paper:

**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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**Classic Papers in Hydraulics** John Stephenson McNown, 1982 **Annotated Bibliography on the Geologic, Hydraulic, and Engineering Aspects of Tidal Inlets** John H. Barwis, 1976

Instruction papers International correspondence schools, 1901 Practice Book (2023-24 WB PSC JE/AE Civil Engineering) YCT Expert Team, 2023 24 WB PSC JE AE Civil Engineering Practice Book Solved Papers

**Fluid Mechanics And Machinery** Durgaiiah 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

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

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

**Hydraulics Research**, 1971 **Annual Report of the State Engineer and Surveyor for the Fiscal Year Ending ...** New York (State). State Engineer and Surveyor, 1911 Annual Report New York (State). State Engineer and Surveyor, 1911

Annual Report New York. State Engineer and Surveyor, 1911 **Annual Report of the State Engineer and Surveyor on the Canals of the State of New York** New York (State). State Engineer and Surveyor, 1911

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

**Measurement in Higher Education** Ben DeKalbe Wood, 1923 L autore propone un metodo scientifico utile ai docenti per misurare con precisione le capacita di apprendimento di ogni studente e la quantit dei contenuti che ha imparato assegnando ai due aspetti di valutazione

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**Arithmetic, mensuration, elementary algebra and trigonometric functions, mechanics, hydraulics and hydraulic machinery** International Correspondence Schools,1902

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