

**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.

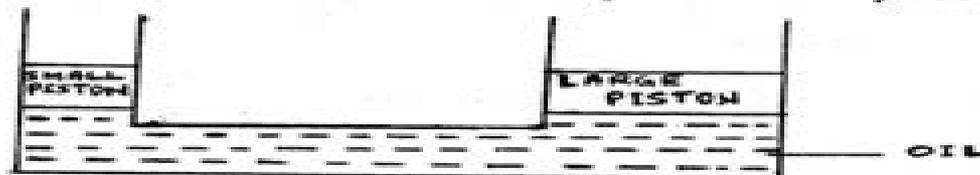


Fig.1(b)

- 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

**M Mark**



## Hydraulics Question Paper:

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## **Table of Contents Hydraulics Question Paper**

1. Understanding the eBook Hydraulics Question Paper
  - The Rise of Digital Reading Hydraulics Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Hydraulics Question Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Hydraulics Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hydraulics Question Paper
  - Personalized Recommendations
  - Hydraulics Question Paper User Reviews and Ratings
  - Hydraulics Question Paper and Bestseller Lists
5. Accessing Hydraulics Question Paper Free and Paid eBooks
  - Hydraulics Question Paper Public Domain eBooks
  - Hydraulics Question Paper eBook Subscription Services
  - Hydraulics Question Paper Budget-Friendly Options

6. Navigating Hydraulics Question Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Hydraulics Question Paper Compatibility with Devices
  - Hydraulics Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hydraulics Question Paper
  - Highlighting and Note-Taking Hydraulics Question Paper
  - Interactive Elements Hydraulics Question Paper
8. Staying Engaged with Hydraulics Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hydraulics Question Paper
9. Balancing eBooks and Physical Books Hydraulics Question Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hydraulics Question Paper
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Hydraulics Question Paper
  - Setting Reading Goals Hydraulics Question Paper
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hydraulics Question Paper
  - Fact-Checking eBook Content of Hydraulics Question Paper
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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