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Republic of the Philippines  
**CAMARINES NORTE STATE COLLEGE**  
F. Pimentel Avenue, Brgy. 2, Daet, Camarines Norte - 4600, Philippines

## COLLEGE OF ENGINEERING

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Score: \_\_\_\_\_

### CE REV – CIVIL ENGINEERING REVIEW

#### QUIZ NO. 1 HYDRAULICS (FINAL PERIOD)

**MULTIPLE CHOICE:** Instructions: Read the questions carefully and choose the correct answer. Each correct answer has a corresponding credit of 1 point. Erasures are not allowed. This is a right minus wrong test.

1. An iceberg having a specific gravity of 0.90 floats in salt water having a specific gravity of 1.03. If the volume of the ice above the surface is  $500 \text{ m}^3$ , what is the volume of the iceberg?  
a.  $396 \text{ m}^3$       **b.  $3962 \text{ m}^3$**       c.  $500 \text{ m}^3$       d. cannot be determined

2-3 A vertical cylindrical tank has an orifice at the bottom for its outlet. Diameter of the orifice is 100mm diameter. The tank has a coefficient of discharge of 0.60. Height of the tank is 6m with a diameter of 6m and the tank is full of water at the start.

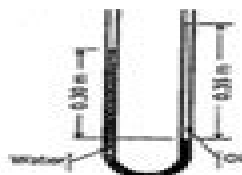
2. Find the time in minutes that water will be drained out equal to  $100 \text{ m}^3$ .  
a. 20.30min      b. 11.6min      c. 60.11min      **d. 39.79min**
3. Find the time in minutes to lower the water to a depth of 4m.  
**a. 20.30min**      b. 11.6min      c. 60.11min      d. 39.79min

- 30.55m** 4. What is the head loss in meters per kilometer on 150mm diameter pipe having a coefficient of friction of 0.25 if the discharge is  $0.0106 \text{ m}^3/\text{sec}$ ?  
a. 6m      b. 3.06m      c. 5.24m      d. 4.46m

5. A liter of water weighs about 9.75N. Compute its mass in kilograms.  
a. 1000kg      **b. 0.994kg**      c. 993.88kg      d. 95.65kg
6. What is the value of the surface tension of a small drop of water 0.3mm in diameter which is in contact with air if the pressure within the droplet is 561kPa.  
a. 0.042N/m      b. 42.075kN/m      **c. 42.075 N/m**      d. 0.42kN/m
7. If a depth of liquid of 1m causes a pressure of 7kPa, what is the specific gravity of the liquid?  
a. **0.714**      b. 0.941      c. 0.874      d. 0.79

8. An open tank contains 5.8m of water covered with 3.2m of kerosene ( $\gamma = 8 \text{ kN/m}^3$ ). Find the pressure at the interface.  
a. 82.498kPa      b. 0      c. 101.325kPa      **d. 25.6kPa**

9. A glass U-tube open to the atmosphere at both ends is shown. If the U-tube contains oil and water, determine the specific gravity of oil.



- a. 1.03      **b. 0.86**      c. 0.96      d. 13.6

# Hydraulics And Hydrology Answer Manual

**Mike Jess**



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