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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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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 m^3 , what is the volume of the iceberg?
a. 396 m^3 **b. 3962 m^3** c. 500 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.

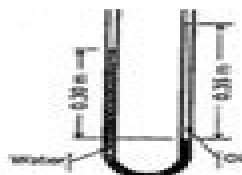
2. Find the time in minutes that water will be drained out equal to 100 m^3 .
a. 20.30min b. 11.6min c. 60.11min **d. 39.79min**
3. Find the time in minutes to lower the water to a depth of 4m.
a. 20.30min b. 11.6min c. 60.11min d. 39.79min

- 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

EW Minium



Hydraulics And Hydrology Answer Manual:

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