## Quiz 2 (09-02-2022)

<ul> <li>This Quiz is for 5 Points</li> <li>Each question carries 0.5 point</li> <li>No late Submission are allowed (-1 marks for Late Submissions)</li> </ul>
choudhary.21@iitj.ac.in Switch account  One Draft saved  Your email will be recorded when you submit this form  * Required
A 300 m3 rigid tank is filled with saturated liquid-vapor mixture of water at 200 kPa. If 25% of the mass is liquid and the 75% of the mass is vapor, the total mass in the tank is *
556 kg
331 kg
○ 300 kg
451 kg
Determine the specific internal energy of water at 200 kPa and 300 oC. *
Determine the specific internal energy of water at 200 kPa and 300 oC. *
280.88 kJ/kg
<ul><li>○ 280.88 kJ/kg</li><li>○ 200.23 kJ/kg</li></ul>
<ul><li>280.88 kJ/kg</li><li>200.23 kJ/kg</li><li>3508.5 kJ/kg</li></ul>
<ul> <li>280.88 kJ/kg</li> <li>200.23 kJ/kg</li> <li>3508.5 kJ/kg</li> <li>2808.8 kJ/kg</li> </ul> A 1-m3 rigid tank contains 10 kg of water (in any phase or phases) at 170°C. The
<ul> <li>280.88 kJ/kg</li> <li>200.23 kJ/kg</li> <li>3508.5 kJ/kg</li> <li>2808.8 kJ/kg</li> </ul> A 1-m3 rigid tank contains 10 kg of water (in any phase or phases) at 170°C. The pressure in the tank is *

792 kPa

The units of the isothermal compressibility are. *
Pa^(-1)
O m^(-3)
Option 4
m^(3)Pa^(-1)
Steam at 4 bar and 500 oC is *
O Saturated
Can't say
○ Wet
Superheated
Determine the temperature of water at a state of P = 0.5 MPa and h = 2890 kJ/kg.  *  216 oC  200 oC  150 oC
The compressibility factor of any gas *
is always equal to 1
may be less than, equal to or greater than 1 depending on the nature of gas
is always greater than 1
is always greater than 1

Ideal gas law is applicable at *
O Low T, low P
High T, high P
C Low T, high P
High T, low P
What would be the pressure of compressed water having specific volume (v) 0.0009996 m3/kg at 20 oC? *
○ 30 MPa
50 MPa
20 MPa
A solid transformed into vapour without going to the liquid phase at. *
Below triple point
O Boiling point
Always
Triple point

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