

Quiz 5A

Total points 9/12

Please answer Yes/no within 5 minutes (This is calculated for 3 points)

The respondent's email (**choudhary.21@iitj.ac.in**) was recorded on submission of this form.

✗ In a control volume analysis attention is focussed on definite quantity of matter * 0/1

☐ False

☒ True

✗

Correct answer

☒ False

✓ Throttling calorimeter is not used for measuring the quality of the wet steam * 1/1

☒ False

☐ True

✓



✗ The boiling point temperature of water reduces with increase in pressure 0/1 *

☒ True

✗

☐ False

Correct answer

☒ False

✓ Ideal gas has zero energy at 0° oC * 1/1

☐ True

☒ False

✓

✓ Expansion against a vacuum involves no work and thus no heat transfer * 1/1

☒ True

✓

☐ False

✓ Throttling valve is called an isenthalpic device * 1/1

☒ Yes

✓

☐ No



✓ Temperature, specific volume and pressure are intensive properties * 1/1

☒ True



☐ False

✗ $C_p - C_v = R$ holds only for ideal gas. * 0/1

☐ Yes

☒ No



Correct answer

☒ Yes

✓ Quality is an Intensive property * 1/1

☒ True



☐ False

✓ The Joule-Thomson coefficient of an ideal gas is zero. * 1/1

☐ No

☒ Yes



✓ A system in which there is exchange of energy but not of mass, is called a open system * 1/1

☐ True

☒ False



✓ In the region to the right of the saturated vapor line and at temperatures above the critical point temperature, a substance exists as superheated vapor * 1/1

☐ False

☒ True



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