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1- According to equation of state, When the gas is kept at a constant temperature, its pressure is inversely proportional to the :

- A. V volume
- B. n amount of matter
- C. temperature
- D. none of the above
- 2- The temperature at which water freezes is :
- A. 0 °F
- B. 0 °C
- C. 100 °C
- D. 0 K
- 3- Heat Q is the :
- A. Energy content of an object
- B. Energy that flows from one system (A) to another (B) because of their temperature equal
- C. Temperature difference
- D. Energy that flows from one system (A) to another (B) because of their temperature difference

4- What is the temperature in Kelvin if the temperature in Celsius is 10°C?

- A. 273.15 K
- B. 10 K
- C. 263.15 K
- D. 283.15 K
- 5- For n amount of matter the total internal energy (U) is :
- A. nRT
- B. 3/2 nRT
- C. 3nRT
- D. 1/2 nRT

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6- Suppose object C in thermal equilibrium with object A and with object B.

The zeroth law of thermodynamics states:

- A. that A cannot be in thermal equilibrium with B
- B. that C must transfer energy to both A and B
- C. nothing about the relationship between A and B
- D. that A is in thermal equilibrium with B
- 7- Heat has the same units as:
- A. time
- B. volume
- C. work
- D. temperature
- 8- Isobaric process is a thermodynamic process in which the ...... stays constant.
- A. pressure
- B. work
- C. volume
- D. temperature

9- If a gas is heated and allowed to expand, doing 30 J of work. If 20 J of heat enters during the expansion, then the change in the internal energy of the gas is:

- A. 50 J
- B. -50 J
- C. -10 J
- D. 10 J

10- A gas at a pressure of 10 Pa is heated and is allowed to expand against a frictionless piston at constant pressure.

If the volume change is 0.5^3m, then the work is done by the gas is :

A. 20 J			
B. 0.05 J			
C. 5 J			
D. 50 J			
1- A			
2- B			
3- D			
4- D			
5- B			
6- D			
7- C			
8- A			
9- C			
10- C			