ET_2425_CT2_Unit2

Total points 10/15

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✗ COP OF REFRIGERATOR IS 4. COP OF HP IS * 0/1

- 4
- 3 ✗
- 5
- 1

Correct answer

- 5

Feedback

COP OF REF +1 = COP OF HP

✓ *2/2

A reffirgerator working on the Reveresed Carnot Cycle has COP of 4 . It works as a heat pump and consumes 1 kw, the heating effect will be

- 4
- 3
- 5 ✓
- 1

✓ * 2/2

HEAT ENGINE WORKS ON WHICH LAW OF THERMODYNAMICS

- FIRST LAW
- SECOND LAW KELVIN PLANK STATEMENT ✓
- SECOND LAW CLAUSIUS STATEMENT
- THIRD LAW

✓ REFRIGERATOR AND HEAT PUMP WORKS ON WHICH LAW OF THERMODYNAMICS *2/2

- FIRST LAW
- SECOND LAW KELVIN PLANK STATEMENT
- SECOND LAW CLAUSIUS STATEMENT ✓
- THIRD LAW

✓ The expression INTEGRAL OF Pdv for obtaining work is applicable to * 2/2

- (●) Non flow Reversible Process ✓
- ( ) Steady flow Reversible Process
- ( ) Non flow adiabatic process
- ( ) Non flow irreversible process
- ( ) None of the above
- ( ) 1 and 2 both
- ( ) Other: .....

✗ The Value of Universal Gas Constant is * 0/2

- ( ) 8314.3 Nm/Kg moleK
- ( ) 287 Nm/kgK
- (●) 8.3143 KJ/Kgmole K ✗
- ( ) 287 KJ/KgK
- ( ) Other: .....

Correct answer

- (●) 8314.3 Nm/Kg moleK

Feedback

COP OF REF +1 = COP OF HP

✓ APPRAISE ISOBARIC PROCESS * 1/1

- (●) PRESSURE CONSTSNT ✓
- ( ) VOLUME CONSTANT
- ( ) ENTHALPY CONSTANT
- ( ) ENTROPY CONSTANT
- ( ) Other: .....

✓ APPRAISE ISOCHORIC PROCESS * 1/1

- ( ) PRESSURE CONSTSNT
- (●) VOLUME CONSTANT ✓
- ( ) ENTHALPY CONSTANT
- ( ) ENTROPY CONSTANT
- ( ) Other: .....

✗ The Value of GENERAL GAS CONSTANT FOR AIR IS * 0/2

- ( ) 8314.3 Nm/Kg moleK
- ( ) 287 Nm/kgK
- ( ) 8.3143 KJ/Kgmole K
- (●) 287 KJ/KgK ✗
- ( ) Other: .....

Correct answers

- (●) 8314.3 Nm/Kg moleK
- (●) 287 Nm/kgK

Feedback

COP OF REF +1 = COP OF HP