

**TOPIC**

Thermodynamics – Section XII – Question 3

**QUESTION**

A Carnot refrigerator operates between  $10^{\circ}\text{C}$  and  $25^{\circ}\text{C}$ . The coefficient of performance most nearly is

- (A) 0.0500
- (B) 0.667
- (C) 18.9
- (D) 19.9

**HINTS**

- For a Carnot refrigerator, COP depends only on T
- Make sure you use the absolute temperature
- Do not confuse a refrigerator with a heat pump or heat engine

**CONTRIBUTOR**

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