

Module 3 – Review Questions

Answer the following questions by selecting True or False. Provide a sentence or two to justify your answer.

1. When a net amount of work is done on a closed system undergoing an internally reversible process, heat transfer from the system also occurs. True / False

2. It is possible to produce power based on the thermal interactions of melting ice in warm water. True / False

3. A combined gas–vapor power cycle includes only the combination of a gas turbine with a steam turbine. True / False

4. Heat transfer is always a reversible process. True / False

5. A condenser is always under a negative vacuum pressure. True / False

6. A process that violates the First Law of Thermodynamics necessarily violates the Second Law as well. True / False
