

PFE BOARD EXAM IN INDUSTRIAL AND POWER PLANT ENGINEERING

1. Calculate the horsepower required per ton of refrigeration produced by the reversal of a Carnot cycle having a thermal efficiency of 50 percent.
 - a. 4.71 hp
 - b. 1.57 hp
 - c. 0.673 hp
 - d. 0.581 hp
2. Calculate the horsepower required per ton of refrigeration produced by the reversal of a Carnot cycle having a thermal efficiency of 25 percent.
 - a. 1.57 hp
 - b. 4.71 hp
 - c. 2.37 hp
 - d. 0.673 hp
3. Calculate the horsepower required per ton of refrigeration produced by the reversal of a Carnot cycle having a thermal efficiency of 12.5 percent.
 - a. 0.673 hp
 - b. 4.71 hp
 - c. 1.57 hp
 - d. 0.581 hp
4. Given, for atmospheric air, temperature, 82°F ; barometric pressure, 29.92 in.Hg; partial pressure of water vapor, 0.5832 psia. What is the dew point temperature?
 - a. 70°F
 - b. 60°F
 - c. 50°F
 - d. 80°F
5. Air enters an ideal converging-diverging at a pressure of 73.5 psia of 1400F and negligible approach velocity. For isentropic expansion to an exit pressure of 14.7 psia, calculate the temperature of the air leaving the nozzle, $^{\circ}\text{F}$.
 - a. 765 $^{\circ}\text{F}$
 - b. 714 $^{\circ}\text{F}$
 - c. 897 $^{\circ}\text{F}$
 - d. 698 $^{\circ}\text{F}$
6. An ideal Rankine reheat cycle operates with steam at 1200 psia and 1060 $^{\circ}\text{F}$ from the boiler. After expansion in the turbine to 90 psia, the steam is returned to the boiler and reheated to a temperature of 950 $^{\circ}\text{F}$. Condenser pressure is maintained at one inch mercury absolute. Calculate cycle thermal efficiency, %.
 - a. 45.7 %
 - b. 44.5 %
 - c. 42.7 %
 - d. 41.8 %
7. An air compressor consumed 1200 kw-hr per day of energy. The electric motor driving the compressor has an efficiency of 80%. If indicated power of the compressor is 34 kw, find the mechanical efficiency of the compressor.
 - a. 117.85 %
 - b. 75 %
 - c. 85 %
 - d. 90 %
8. In an ideal (reversed Joule cycle) air-refrigerating system the temperature of the air entering the compression cylinder is 50°F , the temperature entering the after-cooler is 160°F and the temperature entering the brine tank is 0°F . Calculate the temperature of the air leaving the after-cooler.
 - a. 99°F
 - b. 85°F
 - c. 105°F
 - d. 78°F
9. A 23 tons refrigeration system has a heat rejected of 100 kw. Find the energy efficiency ratio of the system.
 - a. 13.42
 - b. 14.42
 - c. 15.42
 - d. 16.42
10. What is the minimum height from any highest point of any valve stem and the ceiling for new boiler installation if it is a single installation or self contained boiler?
 - a. 915 mm
 - b. 1025 mm
 - c. 2130 mm
 - d. 550 mm
11. A room 14ft x 16ft x 10 ft contains atmospheric air at 72°F . The partial pressure of the water vapor in air is 0.2140psia. Barometer is standard. Calculate the dew point temperature.
 - a. 55°F
 - b. 65°F
 - c. 85°F
 - d. 45°F
12. Smoke stacks, whether self-supporting or guyed, shall be of sufficient capacity to handle fuel gases, and shall rise at least how many meters above the eaves of any building within a radius of 50m.
 - a. 10m
 - b. 5m
 - c. 7m
 - d. 12m
13. A heat exchanger receives oil having specific heat of 0.45 Btu/lb and a temperature of 160F at the rate of 40 000 lb/hr. Fresh water an initial temperature of 60 F flows through the apparatus at the rate of 120 000 lb/hr. Assume unlimited heat transfer area and calculate the common temperature which the fluids will reach under parallel flow.
 - a. 73°F
 - b. 70°F
 - c. 45°F
 - d. 80°F
14. Calculate the rate of heat flow, in Btu/hr, through a 1-in wall of solid concrete which is 20 ft long by 8 ft high. The thermal conductivity of concrete is 0.10Btu/hr.ft $^{\circ}\text{F}$, the external surface temperature is 5°F and the internal surface temperature is 45°F .
 - a. 8760 Btu/hr
 - b. 7680 Btu/hr
 - c. 8764 Btu/hr
 - d. 5423 Btu/hr
15. For the wall of previous problem , the outside film coefficient is 6.0 and the inside is 1.5Btu/hr.ft 2 $^{\circ}\text{F}$, the outside air temperature is -3°F and the inside air temperature is 77°F . k = 0.10 Btu/hr.ft $^{\circ}\text{F}$. Calculate the overall heat transfer coefficient, Btu/hr.ft 2 $^{\circ}\text{F}$
 - a. 0.45 Btu/hr.ft 2
 - b. 0.60 Btu/hr.ft 2
 - c. 0.70 Btu/hr.ft 2
 - d. 0.80 Btu/hr.ft 2
16. 20. For the wall of previous problem , the outside film coefficient is 6.0 and the inside is 1.5Btu/hr.ft 2 $^{\circ}\text{F}$, the outside air temperature is -3°F and the inside air temperature is 77°F . Calculate the rate of heat flow through the wall.
 - a. 8672 Btu/hr
 - b. 7680 Btu/hr
 - c. 9800 Btu/hr
 - d. 6500 Btu/hr
17. Standpipe system providing 2 1/2 inch (64 mm) hose connections to supply water for use by fire departments and those trained in handling heavy fire streams.
 - a. Class I system
 - b. Class III system
 - c. Class II system
 - d. Class IV system
18. In an ideal (reversed Joule cycle) air-refrigerating system the temperature of

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