

**PFE BOARD EXAM IN INDUSTRIAL AND POWER PLANT ENGINEERING**

- Calculate the horsepower required per ton of refrigeration produced by the reversal of a Carnot cycle having a thermal efficiency of 50 percent.
  - 4.71 hp
  - 1.57 hp
  - 0.673 hp
  - 0.581 hp
- Calculate the horsepower required per ton of refrigeration produced by the reversal of a Carnot cycle having a thermal efficiency of 25 percent.
  - 1.57 hp
  - 4.71 hp
  - 2.37 hp
  - 0.673 hp
- Calculate the horsepower required per ton of refrigeration produced by the reversal of a Carnot cycle having a thermal efficiency of 12.5 percent.
  - 0.673 hp
  - 4.71 hp
  - 1.57 hp
  - 0.581 hp
- Given, for atmospheric air, temperature,  $82^{\circ}\text{F}$ ; barometric pressure, 29.82 in.Hg partial pressure of water vapor, 0.5832 psia. What is the dew point temperature?
  - $70^{\circ}\text{F}$
  - $60^{\circ}\text{F}$
  - $50^{\circ}\text{F}$
  - $80^{\circ}\text{F}$
- 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,  $F$ .
  - 765 F
  - 714 F
  - 897 F
  - 698 F
- An ideal Rankine reheat cycle operates with steam at 1200 psia and 1060F 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 F. Condenser pressure is maintained at one inch mercury absolute. Calculate cycle thermal efficiency, %.
  - 45.7 %
  - 44.5 %
  - 42.7 %
  - 41.8 %
- 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 %
- In an ideal (reversed Joule cycle) air-refrigerating system the temperature of the air entering the compression cylinder is  $50^{\circ}\text{F}$ , the temperature entering the after-cooler is  $160^{\circ}\text{F}$  and the temperature entering the brine tank is  $0^{\circ}\text{F}$ . Calculate the temperature of the air leaving the after-cooler.
  - $99^{\circ}\text{F}$
  - $85^{\circ}\text{F}$
  - $105^{\circ}\text{F}$
  - $78^{\circ}\text{F}$
- 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
- 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?
  - 915 mm
  - 1025 mm
  - 2130 mm
  - 550 mm
- A room 14ft x 16ft x 10 ft contains atmospheric air at  $72^{\circ}\text{F}$ . The partial pressure of the water vapor in air is 0.2140psia. Barometer is standard. Calculate the dew-point temperature.
  - $55^{\circ}\text{F}$
  - $65^{\circ}\text{F}$
  - $85^{\circ}\text{F}$
  - $45^{\circ}\text{F}$
- 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.
  - 10m
  - 5m
  - 7m
  - 12m
- A heat exchanger receives oil having specific heat of 0.45 Btu/lb and a temperature of  $190^{\circ}\text{F}$  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.
  - $73^{\circ}\text{F}$
  - $70^{\circ}\text{F}$
  - $45^{\circ}\text{F}$
  - $80^{\circ}\text{F}$
- 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  $0.10\text{Btu/hr}\cdot\text{ft}^{-1}\text{F}$ , the external surface temperature is  $5^{\circ}\text{F}$  and the internal surface temperature is  $45^{\circ}\text{F}$ .
  - 8760 Btu/hr
  - 7680 Btu/hr
  - 8764 Btu/hr
  - 5423 Btu/hr
- For the wall of previous problem , the outside film coefficient is 6.0 and the inside is  $1.5\text{Btu/hr}\cdot\text{ft}^{-2}\text{F}$ , the outside air temperature is  $-3^{\circ}\text{F}$ and the inside air temperature is  $77^{\circ}\text{F}$ .  $k = 0.10\text{Btu/hr}\cdot\text{ft}^{-1}\text{F}$ . Calculate the overall heat transfer coefficient,  $\text{Btu/hr}\cdot\text{ft}^{-2}\text{F}$ 
  - $0.45\text{Btu/hr}\cdot\text{ft}^{-2}$
  - $0.60\text{Btu/hr}\cdot\text{ft}^{-2}$
  - $0.70\text{Btu/hr}\cdot\text{ft}^{-2}$
  - $0.80\text{Btu/hr}\cdot\text{ft}^{-2}$
- For the wall of previous problem , the outside film coefficient is 6.0 and the inside is  $1.5\text{Btu/hr}\cdot\text{ft}^{-2}\text{F}$ , the outside air temperature is  $-3^{\circ}\text{F}$ and the inside air temperature is  $77^{\circ}\text{F}$ . Calculate the rate of heat flow through the wall.
  - 8672 Btu/hr
  - 7680 Btu/hr
  - 9600 Btu/hr
  - 6500 Btu/hr
- 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.
  - Class I system
  - Class III system
  - Class II system
  - Class IV system
- In an ideal (reversed Joule cycle) air-refrigerating system the temperature of
  - Class I system
  - Class III system
  - Class II system
  - Class IV system

# Industrial Engineering Board Exam

**D Sientop**



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