Assignment 4

The data file for submitting this assignment has passed.

Due on 2021-02-17, 23:59 IST.

As per our records you have not submitted this assignment.

1. Which of these held good for low pressure pumps? (1 point)
   - flax
   - a maximum opening pressure is between 1.5 bar and 16 bar
   - all of the above

2. No, the answer is incorrect. Accepted Answers:
   - flax
   - maximum opening pressure is between 1.5 bar and 16 bar

3. High-quality fly and clean air for reliable and efficient operation of pneumatic components is assured through (1 point)
   - primary air treatment units
   - secondary air treatment units
   - both a and b
   - none of the above

4. No, the answer is incorrect. Accepted Answers:
   - both a and b

5. Positive displacement air compressor includes (1 point)
   - rotor type
   - vane type
   - screw type
   - all of the above

6. No, the compressor is incorrect. Accepted Answers:
   - rotor type
   - vane type
   - screw type
   - all of the above

7. Rating of the compressor includes (1 point)
   - operating pressure
   - volumetric flow
   - speed of air
   - type of environment

8. No, the answer is incorrect. Accepted Answers:
   - operating pressure
   - volumetric flow
   - type of environment
   - speed of air

9. Adiabatic dryer uses (1 point)
   - water
   - pressure
   - heat
   - all of the above

10. No, the answer is incorrect. Accepted Answers:
    - water
    - pressure
    - heat
    - all of the above

11. A condensate drain is often used in variable speed pumps to (1 point)
    - maintain the pump at the desired speed
    - maintain the pump at the desired pressure
    - maintain the pump at the desired temperature
    - all of the above

12. No, the answer is incorrect. Accepted Answers:
    - maintain the pump at the desired temperature
    - maintain the pump at the desired pressure
    - maintain the pump at the desired speed
    - all of the above

13. The most efficient method of compressing air is to (1 point)
    - mechanically
    - thermally
    - chemically
    - all of the above

14. Power absorbed in adiabatic compression (1 point)

    Power absorbed: $\frac{(\rho \frac{V_2}{V_1})^\gamma - 1}{\gamma - 1} \times \frac{P_1}{V_1} \times \frac{V_2}{V_1}$