Assignment 0

Due on 2020-04-07, 10:00 AM

1. Describe the operation of a centrifugal pump. (3 marks)
   a. Name the parts of the pump.
   b. Explain the function of each part.
   c. Describe the flow path of the fluid.

2. A 100 HP motor is connected to a conveyor belt. The motor is running at 1200 RPM. The conveyor belt is rotating at 600 RPM. What is the ratio of the motor to the conveyor belt? (2 marks)
   a. Calculate the ratio.
   b. Explain the implications of this ratio.

3. Explain the difference between a positive displacement pump and a centrifugal pump. (2 marks)
   a. List three characteristics of a positive displacement pump.
   b. List three characteristics of a centrifugal pump.

4. A 1000 HP motor is connected to a conveyor belt. The motor is running at 1200 RPM. The conveyor belt is rotating at 600 RPM. What is the ratio of the motor to the conveyor belt? (2 marks)
   a. Calculate the ratio.
   b. Explain the implications of this ratio.

5. A 1000 HP motor is connected to a conveyor belt. The motor is running at 1200 RPM. The conveyor belt is rotating at 600 RPM. What is the ratio of the motor to the conveyor belt? (2 marks)
   a. Calculate the ratio.
   b. Explain the implications of this ratio.

6. A 1000 HP motor is connected to a conveyor belt. The motor is running at 1200 RPM. The conveyor belt is rotating at 600 RPM. What is the ratio of the motor to the conveyor belt? (2 marks)
   a. Calculate the ratio.
   b. Explain the implications of this ratio.

7. A 1000 HP motor is connected to a conveyor belt. The motor is running at 1200 RPM. The conveyor belt is rotating at 600 RPM. What is the ratio of the motor to the conveyor belt? (2 marks)
   a. Calculate the ratio.
   b. Explain the implications of this ratio.

8. A 1000 HP motor is connected to a conveyor belt. The motor is running at 1200 RPM. The conveyor belt is rotating at 600 RPM. What is the ratio of the motor to the conveyor belt? (2 marks)
   a. Calculate the ratio.
   b. Explain the implications of this ratio.