

OIT Practice Test Questions and Answers

1. What does a pump curve show?

- A) The relationship between pump speed and motor horsepower
- B) The relationship between flow rate and head for a specific pump
- C) The temperature rise across a pump at various flows
- D) The efficiency of the pump motor at different voltages

2. What does pump efficiency measure?

- A) The ratio of water delivered to water withdrawn from the source
- B) The ratio of hydraulic power output to shaft power input
- C) The ratio of motor horsepower to pump horsepower
- D) The percentage of time the pump operates without failure

3. What is static head in a pumping system?

- A) The head loss due to pipe friction at a given flow rate
- B) The vertical elevation difference between the water source and the discharge point
- C) The pressure developed by the pump at zero flow
- D) The velocity head at the pump discharge nozzle

4. What is water hammer and what causes it?

- A) Excessive pump speed causing bearing failure
- B) Pressure surge caused by rapid change in fluid velocity, such as sudden valve closure
- C) Vibration from an unbalanced pump impeller
- D) Air trapped in suction piping during priming

Answers: 1-B 2-B 3-B 4-B

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