- 1. Which of the following is NOT a type of governor mechanism?
- a) Centrifugal governor
- b) Inertia governor
- c) Magnetic governor
- d) Gravity governor

Answer: c) Magnetic governor

Explanation: Magnetic governors are not a common type of governor mechanism.

Centrifugal, inertia, and gravity governors are more widely used in various applications.

- 2. Centrifugal governors are primarily driven by:
- a) Gravity
- b) Electric motors
- c) Centrifugal force
- d) Magnetism

Answer: c) Centrifugal force

Explanation: Centrifugal governors operate based on the centrifugal force generated by rotating masses.

- 3. What are the primary characteristics of centrifugal governors?
- a) They regulate speed through centrifugal force
- b) They rely on spring tension
- c) They are primarily used in low-speed applications
- d) They are unaffected by changes in load

Answer: a) They regulate speed through centrifugal force

Explanation: Centrifugal governors work by adjusting the position of weights or masses in response to changes in speed, thus regulating the system.

- 4. Which type of centrifugal governor is controlled by the combined action of gravity and spring force?
- a) Gravity-controlled governor
- b) Spring-controlled governor
- c) Hybrid governor
- d) Centrifugal-spring governor

Answer: d) Centrifugal-spring governor

Explanation: Centrifugal-spring governors use a combination of centrifugal force and spring tension to regulate speed.

- 5. What is the "hunting" phenomenon in centrifugal governors?
- a) The rapid fluctuation of speed
- b) The tendency of the governor to overshoot its set speed
- c) The governor's inability to maintain a steady speed
- d) The hunting season for governors

Answer: b) The tendency of the governor to overshoot its set speed

Explanation: Hunting refers to the oscillation or repeated overshooting and undershooting of the desired speed by a centrifugal governor.

- 6. Gravity-controlled centrifugal governors rely on:
- a) Centrifugal force
- b) Spring tension

- c) Gravity
- d) Magnetic fields

Answer: c) Gravity

Explanation: Gravity-controlled governors use the force of gravity acting on weights to regulate speed.

- 7. Inertia governors utilize:
- a) Springs
- b) Centrifugal force
- c) The inertia of rotating masses
- d) Magnetic fields

Answer: c) The inertia of rotating masses

Explanation: Inertia governors rely on the inertia of rotating masses to regulate speed, often without the need for external forces like springs.

- 8. What is the main advantage of inertia governors over centrifugal governors?
- a) Greater precision
- b) Simplicity of design
- c) Higher efficiency
- d) Resistance to hunting

Answer: d) Resistance to hunting

Explanation: Inertia governors are less prone to hunting, making them advantageous in applications where precise speed control is required.

9. Which type of governor is commonly used in steam engines?

- a) Centrifugal governor
- b) Inertia governor
- c) Gravity governor
- d) Magnetic governor

Answer: a) Centrifugal governor

Explanation: Centrifugal governors are historically and commonly used in steam engines to regulate speed.

- 10. The primary function of a governor mechanism is to:
- a) Generate electricity
- b) Regulate speed
- c) Control temperature
- d) Transmit torque

Answer: b) Regulate speed

Explanation: Governor mechanisms are designed to control and regulate the speed of machines or engines by adjusting fuel, air, or other parameters in response to changes in load or external conditions.

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