

SAQ1

1) Compare flywheel with governor.

(a) the flywheel is a heavy rotating wheel that reduces the jolt due to unavoidable speed fluctuations while a governor is a speed controlling device that controls speed variation caused due to varying load.

(b) A flywheel runs as long as the engine is running while the governor runs when the engine doesn't run at its mean speed.

(c) Flywheels have no independence over the mean speed of the engine while the governor has no influence on the cyclic fluctuations in speed.

2) Which type of control the governor system is?

Ans: Mechanical Feedback control system.

(3) Compare Centrifugal Governor with natural Governor.

(a) the response of the centrifugal governor is slower than that of the natural governor.

(b) only centrifugal force controls the centrifugal governor while both centrifugal and inertia forces control the inertia governor.

(c) the revolving parts of the centrifugal governor are easier to balance than that of the inertia governor.

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SAQ 2.

Why is the Watt governor rarely used?

Ans:

The Watt governor is rarely used because it is limited to only vertical position applications and its sensitivity decreases with speed increase.

SAQ 3.

In which respect is the Porter governor better than Watt governor?

Ans:

The Porter governor is more sensitive at higher speeds than the Watt governor and the Porter can carry dead weight unlike the Watt governor.

SAQ 4

For IC engines, what type of governor will prefer: Dead weight type or Spring controlled type? Give reasons.

Ans:

A dead weight/gravity controlled governor is preferred in IC engines as the basic principle of engine operation is centrifugation.