

SAQ 3

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

!- The Porter governor is more sensitive at higher speed than the Watt governor

* The Porter governor can carry dead weight unlike the Watt governor

SAQ 4

For IC engines, what type of governor will you prefer, Dead weight type or speed controlled type? give reasons

!- The dead weight governor is most preferred in IC engine as the basic principles of engine operation is centrifugation.

1) Compare flywheel with governor

Flywheel	Governor
a) The flywheel is a heavy rotating wheel that reduces the jerk due to unavoidable speed fluctuations.	a) The governor is a speed controlling device that can control speed variation caused by varying load.
b) A flywheel runs as long as the engine is running.	b) It runs when the engine doesn't run at its mean speed.
c) It has no influence over the mean speed of the engine.	c) It has ^{no} influence on the cyclic fluctuation in speed.
d) The flywheel are heavy with a large moment of inertia.	d) The governor is light with a relatively small moment of inertia.

2) Which type of control the governor system is?
Mechanical speed control system

Centrifugal governors	Inertia governors
a) Its response is slower than that of the inertia governor.	a) Its response is not as slow as that of the centrifugal governor.
b) It is controlled by only centrifugal force.	b) It is controlled by both centrifugal and inertia forces.
c) Its sensitivity is not as great as that of the inertia governor.	c) Its sensitivity is greater than that of the centrifugal governor.
d) Its revolving parts is easier to balance than that of the inertia governor.	d) Its revolving parts is not so easy to balance as that of the inertia governor.

SAQ 2

Why is the watt governor rarely used

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