

M&E 312 ① Compare flywheel with governor

- a) The flywheel is a heavy rotating wheel that reduces the jerk due to unavoidable speed fluctuations while a governor is a speed controlling device that controls speed rotation 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 influence over the mean speed of the engine while the governor has no influence on the cyclic fluctuations in speed
- d) Flywheels are heavy with a large moment of inertia while governors are light with a relatively small moment of inertia.

② which type of control is the governor system

The governor system is a mechanical feedback control system.

③ Compare centrifugal governors with inertia governor

- a) The sensitivity of the inertia governor is greater than that of the centrifugal governor
- b) The revolving parts of the centrifugal governor are easier to balance than that of the inertia
- c) The response of the centrifugal governor is slower than 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 positions applications and its sensitivity decreases with speed increase

SAQ 3

In which aspect is the porter governor better than the watt governor?
 The porter governor is more sensitive at higher speeds than the ~~watt and porter~~ watt governor and 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 spring controlled type? Give reasons