

1) Compare flywheel with governor  
 a) The flywheel is a heavy rotating wheel that reduces the peak due to unavoidable speed fluctuations while a governor is a speed due to varying controlling device that controls speed variation caused due to varying load.

b) A flywheel

b) A fly flywheel runs as long as the engine is running while the governor runs when the engine doesn't run it runs speed

c) flywheel have no influence over the mean speed of the engine the governor has no influence on the cyclic

d) flywheel are heavy with a large moment of inertia while governor are light with a relatively small moment of inertia.

2) Which type of control the governor system is?  
 Ans: mechanical feedback control system

3) Compare centrifugal governors with inertia governor

a) The response of the centrifugal governor with governor is slower than that of the inertia governor

b) Only centrifugal force controls the centrifugal governor while the centrifugal and inertia forces control the inertia governor

c) The sensitivity of the inertia governor is greater than that of the centrifugal governor

d) The rotating parts of the centrifugal governor are easier to balance than that of the inertia governor.

Q2

Q why is the Whittle governor rarely used

The Whittle governor is rarely used because it is limited to only vertical position application and its sensitivity decreases with speed increase

Q3

In which respect is the Porter governor better than the Whittle governor

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

Q4

For IC engines, what type of governor will you prefer dead weight type or Spring controlled type? Give reasons

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