

17/ENG06/060

OFOTOKU DESMOND. O.  
MECHANICAL ENGINEERING

MEE 312

### Test

1. Compare flywheel with governor

<u>Differences</u>	<u>flywheel</u>	<u>governor</u>
- It stores energy then gives energy when required		It regulates the speed by regulating the change.
- It controls speed in a single cycle.		It control speed over a period of time.
- It is used in IC engines e.g watches		It is used for automobiles.
- It does not have control over the quantity of working fluid.		It controls the quantity of the working fluid.

2. Which type of control system is the governor?

It is a mechanical feed back control system which senses the output and regulates the input accordingly.

### 3. compare centrifugal governors with inertia governors

inertia governor	Centrifugal governor
- The masses rotate on horizontal plane.	The masses rotate on horizontal plane.
- It is directly connected to the shaft on the engine.	it is <del>not</del> directly connected to the shaft in the engine.
- It works with moment of inertia principle.	it works with <del>balancing</del> of centrifugal force principle.

4. ~~Compare~~ centrifugal gov. Why is watt governor very rarely used? Give reasons.

Ans: Because they are limited to vertical position applications and also because it is very sensitive due to the lack of dead weight at its sleeve.

5. In which respect porter governor is better than watt governor?

Ans: It is more sensitive than that of the watt governor.

6. For IC engines, which type of governor will you prefer, whether dead weight type or spring controlled type? Give reasons.

Ans: Spring controlled type, because they can be calibrated and they can also work at higher speed than the dead weight type.