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MEE312  
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Mechanics of Machine.

SQ1

a Flywheel is set next to the engine and in between engine and clutch and its function is to remove the fluctuation of energy coming from engine so that a constant energy should be supplied.

In the case of governor, governor is used to control the amount of fuel to be given <sup>to</sup> the engine depending upon the load and speed of engine.

SQ2.

It is rarely used because it does not carry dead weight at the sleeve and its sensitiveness is poor at high speed and that limits its application.

SQ3

Porter governor is better than watt governor because porter governor ~~does not~~ carry <sup>heavy</sup> dead weight at the sleeve while watt governor does not.

SQ4

For IC engine, a dead weight / gravity controlled governor is preferred in IC engines as the basic principles of engine operation is centrifugation.

Continuation of SQ1

b The control government system is the mechanical feedback control system.

c i) The centrifugal governor response is slower than the inertia governor.

ii) The centrifugal governor revolving parts, are easier to balance than that of the inertia governor.

iii) The inertia governor has sensitivity greater than that of centrifugal governor.