**Questions after simulation**

1. The energy is stored in Flywheel in form of
2. Potential energy
3. Kinetic energy
4. Heat energy
5. Electrical energy

Answer: Kinetic energy

1. With usual notations for different parameters involved, the maximum fluctuations of energy for a flywheel is given by
2. 2ECs
3. ECs/2
4. 2ECs2
5. 2E2Cs

Answer: 2ECS

1. Flywheel are generally made from

(A) Cast Iron

(B) High strength steel

(C) Ceramics

(D) All of the above

Answer: All of the above

1. Why is the rim type of flywheel used over the disc type of flywheel?
2. Rim type has less weight compared to disc type of flywheel.
3. Rim type has more weight compared to disc type of flywheel.
4. Disc type of flywheel has more weight than rim type
5. None of the above

Answer: a

5. The ratio of maximum fluctuation of speed to the mean speed is called

a) Fluctuation of speed

b) Maximum fluctuation of speed

c) Coefficient of fluctuation of speed

d) None of the above

Answer: Coefficient of fluctuation of speed

6. The difference the maximum and minimum speeds during a cycle is called

a) Fluctuation of speed

b) Maximum fluctuation of speed

c) Coefficient of fluctuation of speed

d) None of the above

Answer: (b)

### A flywheel connected to a punching machine has to supply energy of 160 Nm while running at a mean angular speed of 12 rad/s. If the total fluctuation of speed is not exceeded to + 1.75%, the mass moment of inertia of the flywheel in kgm2 is

1. 56.25
2. 135.39
3. 31.75
4. 23.95

Answer: c