

### **Theory of Machines Quiz Questions and Answers Pdf**

1. Which of the following oil has highest specific gravity?

- a. petrol
- b. diesel
- c. turpentine
- d. castor oil

Ans: D

2. In a Hooke's joint, if the angle between shafts is small the total fluctuation of velocity ratio varies as

- a. the inverse of shaft angle
- b. the inverse of square of shaft angle
- c. the shaft angle
- d. the square of the shaft angle

Ans: D

3. In a car, transmission losses will be minimum in

- a. direct gear
- b. first gear
- c. second gear
- d. third gear

Ans: A

4. A pulley in a belt drive acts as a

- a. sliding pair
- b. rolling pair
- c. cylindrical pair
- d. wrapping pair

Ans; D

5. The most suitable bearing for carrying very heavy loads with slow speed is

- a. hydrodynamic bearing
- b. ball bearing

- c. roller bearing
- d. hydrostatic bearing

Ans: D

6. Tooth interference in an external involute spur gear pair can be reduced by

- a. decreasing center distance between gear pair
- b. decreasing module
- c. decreasing pressure angle
- d. increasing number of gear teeth

Ans: D

7. Which of the following is not a function of flywheel?

- a. store and release energy during work cycle
- b. reduce power capacity of the electric motor
- c. reduce amplitude of speed fluctuations
- d. reduce engine speed

Ans: D

8. Which of the following governors is also known as dead weight type governor?

- a. porter governor
- b. watt governor
- c. hartnell governor
- d. pickering governor

Ans: A

9. Which of the following toothed wheels does not come under the classification according to the type of gearing?

- a. external gearing
- b. internal gearing
- c. rack and pinion
- d. parallel gearing

Ans: D

10. What type of gear is used to connect two intersecting shafts?

- a. bevel gear
- b. helical gear
- c. spur gear
- d. worm and wheel

Ans: A

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