Mechanical Engineering Theory of Machines Questions and Answers Pdf Download

1. The rectilinear motion of a piston is converted into rotor motion by

a. piston rod

b. crank

c. piston pin

d. connecting rod

Ans: D

2. Which of the following is a lower pair?

a. piston and cylinder

b. cam and follower

c. belt drive

d. gear

Ans: A

3. The Biflar suspension method is used to determine

a. position of balancing weights

b. centripetal acceleration

c. natural frequency of vibration

d. moment of inertia

Ans:D

4. Two parallel shafts, the distance between whose axes is small and variable, may be connected by

a. Gear drive

b. universal joint

c. clutch arrangement

d. Oldham's coupling

Ans: D

5. Which of the following is a higher pair?

a. Thomson indicator mechanism

b. Four bar chain

c. Hart's straight line mechanism

d. Tooth gearing mechanism

Ans: D

6. A point on a link connecting double slider crank chain, traces a

a. straight line path

b. circular path

c. parabolic path

d. elliptical path

Ans: D

7. Coriolis component is encountered in

a. slider crank mechanism

b. four bar chain mechanism

c. quick return mechanism

d. a and b above

Ans: C

8. Idler pulley is used for

a. maintaining belt tension

b. changing direction of rotation

c. for stopping motion frequently

d. for running during idling periods only

Ans: A

9. A belt drive is

a. a positive drive

b. not a positive drive

c. meant for small torque transmission only

d. used only when the two pulleys have parallel axis

Ans: B

10. A nut and bolt form a

a. turning pair

b. rolling pair

c. spherical pair

d. sliding pair

Ans: D