

Mechanical Engineering Mechanisms and Machines MCQ Questions with Answers Pdf

1. The type of teeth provided on a gear used in sugar crushing machinery is

- a. involute
- b. paraboloid
- c. hyperboloid
- d. cycloidal

Ans: D

2. In forced vibrations the magnitude of damping force at resonance equals

- a. inertia force
- b. impressed force
- c. infinity
- d. spring force
- e. zero

Ans: B

3. Which of the following effects is more dangerous for a ship?

- a. rolling
- b. waving
- c. pitching
- d. steering
- e. disturbance caused by fishes

Ans: C

4. In involute gears the pressure angel is

- a. dependent on the size of teeth
- b. dependent on the size of gears
- c. always constant
- d. always variable

Ans: C

5. Any point on a link connecting double slider crank chain will trace a

a. straight line

b. circle

c. ellipse

d. parabola

e. hyperbola

Ans: C

6. Rectilinear motion of piston is converted into rotary by

a. cross head

b. slider crank

c. connecting rod

d. gudgeon pin

e. four bar chain mechanism

Ans: B

7. Cross head and guides form a

a. lower pair

b. higher pair

c. turning pair

d. rolling pair

e. sliding pair

Ans: E

8. Which of the following disciplines provides study of relative motion between the parts of a machine?

a. theory of machines

b. applied mechanics

c. mechanisms

d. kinetics

e. kinematics

Ans: E

9. Inertia force acts

- a. perpendicular to the accelerating force
- b. along the direction of accelerating force
- c. opposite to the direction of accelerating force
- d. in any direction w.r.t. accelerating force depending on the magnitude of two

Ans: C

10. The circle passing through the bottom of the teeth of gear is known as

- a. inner circle
- b. prime circle
- c. base circle
- d. addendum circle
- e. dedendum circle

Ans: E

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