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1) Which one of the following is a higher pair ?

- a) Belt and pulley
- b) Turning pair
- c) Screw pair

View Answer

Option – a)

2)The unbalanced primary forces in a reciprocating engine are

- (A) Balanced completely
- (B) Balanced partially
- (C) Balanced by secondary forces
- (D) Not balanced

View Answer

Option – b)

3) The lead screw of a lathe with nut is a

- a) rolling pair
- b) screw pair
- c) turning pair
- d) sliding pair

View Answer

Option – b)

4)The example of successfully constrained motion is a

- (A) Motion of an I.C. engine valve
- (B) Motion of the shaft between a footstep bearing
- (C) Piston reciprocating inside an engine cylinder
- (D) All of the above

View Answer

Option – d)

5) Degree of freedom of super structure is

- a) less than zero
- b) zero
- c) less than one
- d) greater than one

View Answer

Option – a)

6)The instantaneous centers which vary with the configuration of mechanism are called

- (A) Permanent instantaneous centers
- (B) Fixed instantaneous centers
- (C) Neither fixed nor permanent instantaneous centers
- (D) None of the above

View Answer

Option – c)

7) Quick return mechanism is used in

- a) Milling machine
- b) Slotter
- c) Universal lathe machine
- d) Hook's coupling

View Answer

Option – b)

8)The example of lower pair is

- (a) shaft revolving in a bearing
- (b) straight line motion mechanisms
- (c) automobile steering gear

(d) all of the above

(e) none of the above.

View Answer

Option – d)

9) The space centrode of a circular disc rolling on a straight path is

a) a circle

b) a parabola

c) a straight line

d) ellipse

View Answer

Option – c)

10) Pitch point on a cam is

(a) any point on pitch curve

(b) the point on cam pitch curve having the maximum pressure angle

(c) any point on pitch circle

(d) the point on cam pitch curve having the minimum pressure angle

(e) none of the above.

View Answer

Option – b)