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## Applied Mechanics and Graphic Statics MCQ

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**Q1. The maximum displacement of a particle executing S.H.M. corresponds to which of the following?**

- **A. Zero kinetic energy and maximum potential energy**
- B. Maximum kinetic energy and maximum potential energy
- C. Minimum kinetic energy and minimum potential energy
- D. None of the above

**Q2. The Rate of change of angular momentum is equal to .....**

- A. Force
- **B. Torque**
- C. Impulse
- D. All of the above

**Q3. Which of the following is the correct statement?**

- A. The space centrode rolls on the body centrode.
- **B. The body centrode rolls on the space centrode.**
- C. Isolated joint with all the forces, internal as well as external, acting on it
- D. None of the above

**Q4. What is the maximum value of the horizontal limit for a projectile projected with a velocity of 98 m/s?**

- **A. 980 m**
- B. 490 m
- C. 1960m
- D. None of the above

**Q5. Free body diagram is an Isolated joint with all the forces, internal as well as external, acting on it.**

- **A. True**
- B. False

**Q6. What is called the total time of collision and restitution of two bodies?**

- A. Time of collision
- B. Period of impact
- C. Period of collision
- **D. All of the above**

**Q7. Which of the following is the correct statement?**

- A. The body centre never touches space centre
- **B. The body centre rolls on the space centre**
- C. The space centre rolls on the body centre
- D. None of the above

**Q8. What is the shape of a suspended cable under its own weight?**

- **A. Circular**
- B. Parabolic
- C. Elliptical
- D. Catenary

**Q9. The inherent property of a body that offers reluctance to change its state of rest or uniform motion is .....**

- A. Mass
- B. Weight
- **C. Inertia**
- D. All of the above

**Q10. Does Coefficient of friction depend on Nature of surfaces only.**

- **A. Yes**
- B. No

**Q11. Which of the following is intrinsic equation of catenary?**

- **A.  $S = c \tan \theta$  ?**
- B.  $y = c \cosh \theta$  ?
- C.  $y = c \sinh \theta$  ?
- D.  $y = c \cosh x/c$

**Q12. What will be the angular speed of a car taking a circular turn of radius 100 m at 36 km/hr?**

- A. 1 rad/sec
- B. 10 rad/sec
- **C. 0.1 rad/sec**
- D. 100 rad/sec

**Q13. Due to which reason a satellite moves in its orbit around the earth?**

- A. Centrifugal force
- **B. Centripetal force**
- C. Gravitational force
- D. None of the above

**Q14. Which one of the following laws is not applicable to a simple pendulum?**

- **A. The time period is proportional to its length  $l$**
- B. The time period does not depend on its magnitude
- C. The time period is proportional to  $l$  where  $l$  is the length
- D. None of the above

**Q15. For maximum range of a projectile, the angle of projection should be**

- A.  $30^\circ$
- B.  $60^\circ$
- **C.  $45^\circ$**
- D. None of the above

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