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Engineering Mechanics MCQ Quiz

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Q1. The moment of inertia of a thin spherical shell of mass m and radius r, about its diameter is -

- **A.** mr2/3
- **B. 2mr2/3**
- **C.** 2mr2/5
- **D.** 3mr2/5

Q2. In actual machines, mechanical advantage is _____ velocity ratio.

- **A. Less than**
- **B.** Equal to
- **C.** Greater than
- **D.** None of these

Q3. The unit of power in S.I. units is -

- **A.** Joule
- **B.** Horsepower
- **C. Watt**
- **D.** kg-m

Q4. 1 watt is equal to -

- **A. 1 joule/s**

- **B.** 0.1 joule/s
- **C.** 10 joules/s
- **D.** 100 joules/s

Q5. When two elastic bodies collide with each other,

- **A.** The two bodies will momentarily come to rest after collision
- **B.** The two bodies begin to regain their original shape
- **C.** The two bodies tend to compress and deform at the surface of contact
- **D. All of the above**

Q6. The coefficient of friction depends upon -

- **A.** Area of contact
- **B. Nature of surfaces**
- **C.** Shape of the surfaces
- **D.** All of the above

Q7. A machine having an efficiency greater than 50%, is known as -

- **A.** Non-reversible machine
- **B. Reversible machine**
- **C.** Neither reversible nor non-reversible machine
- **D.** Ideal machine

Q8. In the lever of third order, load 'W', effort 'P' and fulcrum 'F' are oriented as follows -

- **A.** F between W and P
- **B. W between P and F**
- **C.** P between W and F
- **D.** W, P and F all on one side

Q9. Coulomb friction is the friction between -

- **A. Bodies having relative motion**
- **B.** Two lubricated surfaces
- **C.** Two dry surfaces
- **D.** Solids and liquids

Q10. Which of the following is the example of lever of first order?

- **A.** Pair of scissors
- **B.** Arm of man
- **C.** Pair of clinical tongs
- **D. All of the above**

Q11. In order to double the period of simple pendulum, the length of the string should be

- **A.** Doubled
- **B.** Halved
- **C. Quadrupled**
- **D.** None of these

Q12. The centre of gravity of a uniform lamina lies at -

- **A.** The bottom surface
- **B.** The centre of heavy portion
- **C. The midpoint of its axis**
- **D.** All of the above

Q13. The necessary condition for forces to be in equilibrium is that these should be

- **A.** Coplanar
- **B.** Meet at one point
- **C. Both 1 & 2**
- **D.** All of the above

Q14. Which of the following is a vector quantity?

- **A.** Mass
- **B.** Energy
- **C. Momentum**

- **D.** Angle

Q15. The maximum velocity of a particle moving with simple harmonic motion is

- **A.** ?
- **B. ?r**
- **C.** ?2r
- **D.** ?/r

Q16. The product of either force of couple with the arm of the couple is called

- **A. Moment of the couple**
- **B.** Resultant couple
- **C.** Resulting couple
- **D.** Moment of the forces

Q17. The centre of gravity a T-section 100 mm × 150 mm × 50 mm from its bottom is -

- **A.** 50 mm
- **B.** 75 mm
- **C. 87.5 mm**
- **D.** 125 mm

Q18. Which of the following is not a vector quantity?

- **A. Weight**
- **B.** Velocity
- **C.** Acceleration
- **D.** Force

Q19. What is the distance traveled by an electron in first 4 seconds from its initial position, if velocity time relation is given as v = 3t?

- **A.** 15 m
- **B.** 12 m
- **C.** 20 m
- **D. 24 m**

Q20. Which of the following statements is true for flat belt

- **A. They are used in lathe machines**
- **B.** They are used for short distances between the pulleys
- **C.** They have high efficiency
- **D.** All of the above

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