

**Mechanics QUESTIONS**

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1) Light year is unit of :

- >time
- >speed of light
- >distance
- >mass

**Answer:**  
>distance

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2) Parasec is the unit of:

- >distance
- >time
- >intensity of light
- >magnetic line

**Answer:**  
>distance

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3) Ampere is the Unit of :

- >Current electricity
- >magnetic field
- >electric charge
- >resistance

**Answer:**  
>Current electricity

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4) What is the SI unit of pressure:

- >Pascal
- >Dyne
- >Newton
- >Jule

**Answer:**  
>Pascal

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5) Decibel is the unit of:

- >Speed of light
- >intensity of sound
- >intensity of heat
- >none of these

**Answer:**

- >intensity of sound
- 
- 

6) One astronomical unit is the average distance between :

- >Earth and the Sun
- >Earth and the moon
- >Jupiter and the Sun
- >Pluto and the Sun

**Answer:**

- >Earth and the Sun
- 
- 

7) Which of the following is a vector quantity ?

- >Momentum
- >Pressure
- >Energy
- >Work

**Answer:**

- >Momentum
- 
- 

8) A car goes straight from a point A to a point B with a velocity of 40 km/h and return back with a velocity of 60 km/h. The average velocity during the whole journey is:

- >0
- >48 km/h
- >50 km/h
- >none

**Answer:**

- >0
- 
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9) A person stands at the middle point of a wooden ladder which starts slipping between vertical wall and the floor of the room, while continuing to remain in a vertical plane. The path traced by a person standing at the middle point of the slipping ladder is:

- >straight line
- >a elliptical path
- >a circular path
- >a parabolic path

**Answer:**

- >a circular path
- 

10) The value of which one of the following quantity remains same in all system of units ?

- >Acceleration due to gravity
- >Specific gravity
- >pressure
- >density

**Answer:**

- >Specific gravity
- 

11) Two teams are pulling a rope with equal and opposite forces each of 5 KN in a tug of war so that a condition of equilibrium exists. What will be the tensile force in the rope ?

- >zeri
- >2.5 KN
- >5KN
- >10 KN

**Answer:**

- >5KN
- 

12) A body moves with a constant speed along a curved path its acceleration:

- >is zero
- >is parallel to its velocity
- >can make any arbitrary angle with its velocity
- >is perpendicular to its velocity

**Answer:**

- >is perpendicular to its velocity
- 

13) If the radius of the earth were shrink by one percent its mass remaining the same the value of  $g$  on the earths surfact would.

- >increase by 0.5%
- >increase by 2%

- >decrease by 0.5%
- >decrease 2%

**Answer:**

- >increase by 2%
- 

14) A car is running on a road at a uniform speed of 60 km/h. The net resultant force on the car is:

- >driving force in the direction of cars motion
- >Resistance force opposite to the direction of car motion
- >an inclined force
- >equal to zero

**Answer:**

- >equal to zero
- 

15) The working principle of a washing Machine is:

- >Centrifugation
- >dialysis
- >reverse osmosis
- >diffusion

**Answer:**

- >Centrifugation
- 

16) Which of the following is most elastic:

- >rubber
- >wet clay
- >steel
- >plastic

**Answer:**

- >steel
- 

17) A bird is sitting in a wire cage which is hanging from a spring balance if the bird starts flying inside the cage the reading of the spring balance will:

- >remain unchanged
- >be less than earlier
- >be more than earlier
- >none of these

**Answer:**

>be less than earlier

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18) When a fluid passes through the constricted part of a pipe its:

- >Velocity and pressure decrease
- >Velocity and pressure increase
- >Velocity decreases and pressure increases
- >Velocity increases and pressure decreases

**Answer:**

- >Velocity increases and pressure decreases
- 
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19) What is the value of g on earth in mt/second square?

- >12
- >11
- >1
- >9.8

**Answer:**

- >9.8
- 
- 

20) Water drops do not stick to the oily surface due to :

- >lack of adhesive force
- >surface tension
- >cannot mix each other
- >water is lighter than oil

**Answer:**

- >lack of adhesive force
- 
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