

## Physics ICS Part 1 Full Book Mcq's Online Test

| Sr | Questions                                                                                                                              | Answers Choice                                                                                                                                 |
|----|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | If a body of mass 5 kg is raised vertically through a distance of 1 m, then work done is.                                              | A. 49 J<br>B. 4.9 J<br>C. 490 J<br>D. 0.49 J                                                                                                   |
| 2  | The work done will be maximum when angle between F and d.                                                                              | A. $180^\circ$<br>B. $0^\circ$<br>C. $90^\circ$<br>D. $60^\circ$                                                                               |
| 3  | SI unit of work                                                                                                                        | A. Newton<br>B. Walt<br>C. Pascal<br>D. Joule                                                                                                  |
| 4  | The unit of work in base unit is                                                                                                       | A. $\text{Kg m}^{-1} \text{sec}^{-2}$<br>B. $\text{Kgm sec}^{-2}$<br>C. $\text{Kgm}^2 \text{sec}^{-1}$<br>D. $\text{Kgm}^{-1} \text{sec}^{-1}$ |
| 5  | The dimensions of work are.                                                                                                            | A. $[\text{MLT}^{-1}]$<br>B. $[\text{MLT}^{-2}]$<br>C. $[\text{ML}^2\text{T}^{-2}]$<br>D. $[\text{MLT}]$                                       |
| 6  | Work is negative when angle between F and d is                                                                                         | A. $45^\circ$<br>B. $0^\circ$<br>C. $90^\circ$<br>D. $180^\circ$                                                                               |
| 7  | Work has dimension lime                                                                                                                | A. Torque<br>B. Momentum<br>C. Velocity<br>D. Power                                                                                            |
| 8  | If the initial velocity of a projectile becomes doubled, the time of fight will be.                                                    | A. Same<br>B. 4 times<br>C. Double<br>D. 3 times                                                                                               |
| 9  | The maximum range of projectile is 100 km, Take $g=10 \text{ ms}^{-2}$ , the initial velocity of the projectile will be.               | A. 1000 $\text{kms}^{-1}$<br>B. 1 $\text{kms}^{-1}$<br>C. 10 $\text{kms}^{-1}$<br>D. 100 $\text{kms}^{-1}$                                     |
| 10 | the acceleration along x-axis direction in case of projectile is.                                                                      | A. Zero<br>B. Equal to gravity<br>C. Maximum<br>D. Constant                                                                                    |
| 11 | The acceleration of a projectile along x axis is.                                                                                      | A. Zero<br>B. Increase<br>C. Decrease<br>D. Equal to 'g'                                                                                       |
| 12 | The horizontal range of a projectile of $30^\circ$ with horizontal is same at an angle.                                                | A. $40^\circ$<br>B. $45^\circ$<br>C. $90^\circ$<br>D. $60^\circ$                                                                               |
| 13 | Height of projectile is maximum at an angle of.                                                                                        | A. $45^\circ$<br>B. $60^\circ$<br>C. $30^\circ$<br>D. $90^\circ$                                                                               |
| 14 | A ball is thrown up with $20 \text{ ms}^{-1}$ at an angle of $60^\circ$ with x-axis , the velocity of the ball at the top position is. | A. $0 \text{ ms}^{-1}$<br>B. $10 \text{ ms}^{-1}$<br>C. $20 \text{ ms}^{-1}$<br>D. $16 \text{ ms}^{-1}$                                        |
| 15 | For maximum range the angle of projection must be                                                                                      | A. $30^\circ$<br>B. $45^\circ$<br>C. $60^\circ$<br>D. $90^\circ$                                                                               |

|    |                                                      |                                                                |
|----|------------------------------------------------------|----------------------------------------------------------------|
| 16 | The path followed by a projectile is known as its    | A. Range<br>B. Trajectory<br>C. Cycle<br>D. Height             |
| 17 | The shape of trajectory of short range projectile is | A. Straight line<br>B. Circle<br>C. Elliptical<br>D. Parabolic |