

Physics Fsc Part 1 Full Book Online Test

Sr	Questions	Answers Choice
1	If a material object moves with the speed of light 'c' its mass becomes	A. <p>Equal to its rest mass</p> B. <p>Infinite</p> C. <p>Four times of its rest mass</p> D. <p>Double of its rest mass</p>
2	Escape velocity depends upon.	A. <p>Mass of the body</p> B. <p>Radius of the body</p> C. <p>Radius of the planet</p> D. <p>Radius of the Earth</p>
3	SI Unit of force	A. <p>Newton</p> B. <p>Dyne</p> C. <p>Joule</p> D. <p>Watt</p>
4	The projectile gains its maximum height at an angle of 45°	A. <p>0⁰</p> B. <p>45⁰</p> C. <p>60⁰</p> D. <p>90⁰</p>
5	Lenz's law is consistent with	A. <p>Law of conservation of energy</p> B. <p>Law of conservation of charge</p> C. <p>Law of conservation of momentum</p> D. <p>Law of conservation of mass</p>
6	A dry battery can deliver 3000 J of energy to a 2 W small electric motor before the battery is exhausted. For how many minutes does the battery run?	A. <p>1500 min</p> B. <p>100 min</p> C. <p>25 min</p> D. <p>50 min</p>
7	The dimensions of weight are.	A. <p>[MLT-2]</p> B. <p>[LT-1]</p> C. <p>[LT-2]</p> D. <p>[ML2T]</p>
8	A body thrown upward making certain angle with the horizontal and moving freely under the action of gravity is called.	A. <p>Rocket</p> B. <p>Satellite</p> C. <p>Projectile</p> D. <p>Space ship</p>
9	If the rest mass of a particle m_0 increased to m due to its high speed then its kinetic energy is.	A. <p>($m - m_0$) $c^{2/sup}</p>$ B. <p>1/2 $m v^2</p>$ C. <p>1/2 $m c^{2/sup}</p>$ D. <p>1/2 ($m - m_0$) $v^2</p>$
10	Ratio of dimension of power and K.E. is.	A. <p>1 : 1</p> B. <p>T : 1</p> C. <p>1 : T</p> D. <p>M : T</p>
11	The particles of medium in longitudinal wave vibrate direction of propagation	A. <p>Parallel</p> B. <p>Perpendicular</p> C. <p>Upward</p> D. <p>None of these</p>
12	The pressure will be how when speed of fluid is.	A. <p>High</p> B. <p>Zero</p> C. <p>Low</p> D. <p>Constant</p>
13	Law of conservation of energy is on the basis of.	A. <p>Bernoulli's theorem</p> B. <p>Venture relation</p> C. <p>Stoke's law</p> D. <p>Equation of continuity</p>
14	One of the following quantities that is not affected by the magnetic field is	A. <p>Moving charge</p> B. <p>Change in magnetic flux</p> C. <p>Current flowing in conductor</p>

15 The product of cross sectional area of the pipe and the fluid speed at any point is.

- A. <p>Negative</p>
- B. <p>Zero</p>
- C. <p>Constant</p>
- D. <p>Variable</p>

16 'R' is called

- A. <p>Universal constant</p>
- B. <p>Universal per molecule constant</p>
- C. <p>Universal gas constant</p>
- D. <p>All of the above</p>

17 An iron sphere whose mass is 30 kg has the same diameter as an aluminium sphere whose mass is 10.5 kg. The spheres are simultaneously dropped from a cliff. When they are 10 m from the ground, they have identical.

- A. <p>Accelerations</p>
- B. <p>Momentums</p>
- C. <p>Potential energies</p>
- D. <p>Kinetic energies</p>

18 The region of stress-strain curve which obeys Hook's law is.

- A. <p>Proportional Limit</p>
- B. <p>P</p>
- C. <p>lastic region</p>
- D. <p>E</p>
- E. <p>lastic region</p>
- F. <p>P</p>
- G. <p>yield limit</p>
- H. <p>Y</p>

19 The diameter of a steel ball is measured using a Vernier callipers and its reading is shown in the figure. What is the diameter of the steel ball.

- A. <p>1.30 cm</p>
- B. <p>1.39 cm</p>
- C. <p>1.40 cm</p>
- D. <p>1.31 cm</p>

20 The effect of increasing the angle between the light wave and the analyzer on the intensity of light is.

- A. <p>The intensity increases</p>
- B. <p>The intensity decreases</p>
- C. <p>The intensity remains the same</p>
- D. <p>The intensity becomes zero</p>