Physics Fsc Part 1 Chapter 2 Online Test

Sr	Questions	Answers Choice
1	The range of projectile is same for two angles which are mutually.	A. Perpendicular B. Complementary C. Supplementary D. 270^o
2	Motion of projectile is.	A. One dimensional B. Two dimensional C. Three dimensional D. None of the above
3	A collision in whcih both K.E. and momentum are conseverd.	A. Elastic collision B. Inelastic ollision C. Both elasic and inclastic D. Norther elastic nor inclastic
4	Before launch of any rocket the mass of fuel of the rocket is about	A. 60% of rocket mass B. 50% of rocket mass C. 40% of rocket mass D. 80 % of rocket mass
5	When the projectile the highest point of trajectory the verticla component of velocity is.	A. Small B. maximum C. Zero D. V Cos
6	Whcih of the following is a scalar quantity.	A. Torque B. Forece C. Energy D. Acceleration
7	The rate of change of momentum is	A. Force B. Impulse C. Acceleration D. Power
8	The scalar prodcut of two vectors A and B is zero when	A. They are perpendiclar to each other B. They are equal vector C. They are in same direction D. They are in opposite direction
9	The motion of the rocket is in accordance with law of conservaion of	A. Linear momentum B. Energy C. Mass D. Angular momentum
10	Elastic collision involoves	A. Loss of energy B. Gain of energy C. No gain, no loss of energy D. No relation between energy and elastic collision
11	The SI unit of momentum is.	A. Kg ms B. Kg ms -2 C. kg m2 s D. kg 2 m-1
12	The angle at which dot product becomes equal to cross product.	A. 45^o B. 65^o C. 75^o D. 35^o
13	SI Unit of impulse in.	A. kg m s-2 B. Ns C. N m D. N m2
14	If A.B =0 when vector A and B are parallel or anti paralled, then either A or B is a	A. Equal B. Null Vector C. Perpendicular D. Not Zero

15	The trajectory of projectile is.	A. Straight line B. Parabola C. Hyperbola D. Circle
16	Ascalar is a physicla quantity which is completely specified by.	A. Number B. Direction only C. Number with proper unit D. Number with direction
17	The velocity of the projectile is maximum.	A. At half of height B. At highest point C. Just before striking the ground and at the point of projection D. At one fourth of maximum height
18	As rocket moves upwrd during its journey, then its acceleration goes on.	A. Increasing B. Decreasing C. Remains same D. It moves with uniform velocity
19	During the projectile motion the horizontal component of velocity	A. Changes with time B. Becomes zero C. Does not changes D. Increase with time
20	The acceleration at the top of a trajectory of projectile is.	A. g B. zero C. Maximum D. Minimum
21	The scalar product of two vectors will be maximum if they are.	A. Parallel B. Perpedicular C. Anti Parallel D. All of these
22	In projectiel motion horizontal rane depends upon.	A. Angle of projection B. Initial velocity C. Both initial velocity and angle of projection D. Final Velocity
23	A body thrown upward making certain angel with the horizontal and moving freely under the action of gravity is called.	A. Rocket B. Satellite C. Projectile D. Space ship
24	The resultant of two forece 3 N and 4 N actign parallel to each other is.	A. 4 N B. 7 N C. 1 N D. 6 N
25	Maximum number of rectangular components of a vector in 2- dimenstion may be	A. One B. Two C. Three D. Infinite
26	For what angle of projection projectile has maximum horizontal range	A. 45^o B. 90^o C. 0^o D. 30^o
27	If A x B points along positive z-axis, then vector A and B must lie in.	A. y Z -plane B. X y -plane C. X Z -plane D. x 0 - Plane
28	If A x B = 0 then it is concluded that.	A. A and B ar e to each other B. A and B are parallel to each other C. A and B are position vectors D. A and B are unti vectors
29	The projectile gains its maximum gh at an angle of.hei	A. 0^o B. 45^o C. 60^o D. 90^o
30	The scalar product of two vector is maximum if they are.	A. Perpendicular B. Parallel C. At 30^o D. At 45^o

31	The magnituede of cross-proecut and dot product of two vectors are equal, the angle betwene the vectors is.	A. 45^o B. Zero C. 180^o D. 90^o
32	Dimensions of impulse are similar to dimensions of.	A. Work B. Torque C. Force D. Momentum
33	Rocket ejects the burnt gasses at a speed of over (consuming fuel at rate of 10000kg/s)	A. 4000 m/s B. 400 m/s C. 40000 cm/s D. 400 cm/s
34	Name the quantity which is a vector	A. Power B. Density C. Impulse D. Charge
35	The Fs of force F of magnitude 30 N making an angle of 60^{o} with x -axis	A. 7 N B. 15 N C. 10 N D. 5 N
36	The horizontal componet is velocity of projectile moving with initial velocity of 500 ms -1 at angle of 60^{o} with x-axis is equal to	A. 250 ms-1 B. Zero C. 500 ms -1 D. 1000 ms-1
37	The cross product of vector A with itself is equal to.	A. A B. 1 C. 2 A D. Null Vector
38	If a force of 10 N makes an angle of 30^{o} with x-axis its y-component is given by	A. 8.66 N B. 0 N C. 0.776 N D. 5 N