Physics ICS Part 1 Chapter 2 Online Test

Sr	Questions	Answers Choice
1	The acceleration at the top of a trajectory of projectile is.	A. g B. zero C. Maximum D. Minimum
2	Maximum number of rectangular components of a vector in 2- dimenstion may be	A. One B. Two C. Three D. Infinite
3	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
4	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
5	The range of projectile is same for two angles which are mutually.	A. Perpendicular B. Complementary C. Supplementary D. 270^o
6	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
7	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
8	The scalar product of two vector is maximum if they are.	A. Perpendicular B. Parallel C. At 30^o D. At 45^o
9	The SI unit of momentum is.	A. Kg ms B. Kg ms -2 C. kg m2 s D. kg 2 m-1
10	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
11	The rate of change of momentum is	A. Force B. Impulse C. Acceleration D. Power
12	The trajectory of projectile is.	A. Straight line B. Parabola C. Hyperbola D. Circle
13	During the projectile motion the horizontal component of velocity	A. Changes with time B. Becomes zero C. Does not changes D. Increase with time
14	The angle at which dot product becomes equal to cross product.	A. 45^o B. 65^o C. 75^o D. 35^o
		A. A and B ar e to each other B. A and B are parallel to each other

15	If A x B = 0 then it is concluded that.	C. A and B are position vectors D. A and B are unti vectors
16	The projectile gains its maximum gh at an angle of.hei	A. 0^o B. 45^o C. 60^o D. 90^o
17	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
18	For what angle of projection projectile has maximum horizontal range	A. 45^o B. 90^o C. 0^o D. 30^o
19	Motion of projectile is.	A. One dimensional B. Two dimensional C. Three dimensional D. None of the above
20	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