

Physics ECAT Pre Engineering MCQ's Test For Full Book

Qr.	Quactions	Anguara Chaica
Sr	Questions	Answers Choice
1	If the velocity of the body decreases non-uniformly then the slope of the velocity-time graph will have	A. different values B. same values C. zero valves D. constant valves
2	The force exerted by the fluid in a hydraulic pump on the piston is 10 $\rm cm^2$, the fluid pressure on the piston is, in $\rm N cm^2$	A. 20 B. 200 C. 2000 D. 20,000
3	Which one the following gives three regions of electromagnetic spectrum in order of increasing wavelength?	A. Gamma rays, micro waves, visible light B. Radio waves, ultraviolet waves, X-rays C. Ultraviolet rays, infrared rays, micro waves D. Visible light, gamma rays, radio waves
4	At the starting point of the free fall motion of an object, its acceleration will be	A. maximum B. minimum C. zero D. none of them
5	A certain charge liberates 0.8 g of oxygen. The same charge will liberate. how many g of silver?	A. 108 g B. 10.8 g C. 0.8 g D. 108/0.8 g
6	Which one of the following relations is correct?	A. 1 Wb-m ² = Nm ^{- 1} A ⁻¹ B. 1 tesla = 104 gausses C. 1 Wb-m ² = 1 tesla D. All of the above
7	The average value of current and voltage over a cycle is	A. Positive B. Negative C. Zero D. May be positive or negative
8	The Boltzman constant has the value	A. 1.38 x 10 ⁻²³ JK ⁻¹ B. 1.28 x 10 ⁻²³ JK ⁻¹ C. 1.38 x 10 ⁻²⁶ JK ⁻¹ D. 1.28 x 10 ⁻¹ D. 1.28 x 10 ⁻²⁶ JK ⁻¹ -1
9	Substances that do not flow easily have	A. large coefficient of viscosity B. small coefficient of viscosity C. either of them D. none of them
10	If a vector lies in second quadrant, than B _x and B _y are:	A,+ B. +,- C. +,+ D,-
11	A person standing near the track of a fast moving train has tendency to fall towards it because of	A. Vibration due to motion of train B. Gravitation force of attraction between person and trains C. The high speed of train D. Some other effect
12	If the object is situated at focus of a convex lens, then its image is formed at:	A. F B. 2F C. Infinity D. None of these
13	The electric field will be uniform	A. Near a positive point charge B. Near a negative point charge C. Between two oppositely charged parallel metal plates D. None of above

A medium of dielectric constant 'K' is introduced between the plates of parallel plate condenser. As a result its capcitance	A. Increase k time B. Decreases k times C. Decreases 1/K times D. Remains unchanged
Teh consumption of energy by a 1000 watt heater in half an hour is:	A. 5 Kwh B. 0.5 Kwh C. 2.5 Kwh D. 3.2 Kwh
Slope of velocity time graph represents:	A. Acceleration B. Speed C. Torque D. Work
Referring to above figure, due to change in current in the coil P, the change in magnetic flux	A. Is associated with coil P B. Is associated with coil S C. Causes and induced current in coil S D. All of these E. None of these
One radian is equal to:	A. 30.3° B. 45.3° C. 50.3° D. 57.3°
Einstein's theory about gravity if better than Newton's because it gave explanation of:	A. Inverse square law B. Bending of light C. Both A and B D. None of above
The dot product of electric field intensity E and vector area A is called	A. Electric potential B. Electric flux C. Electric field D. Magnetic field
	Teh consumption of energy by a 1000 watt heater in half an hour is: Slope of velocity time graph represents: Referring to above figure, due to change in current in the coil P, the change in magnetic flux One radian is equal to: Einstein's theory about gravity if better than Newton's because it gave explanation of: