

ECAT Pre General Science MCQ's Test For Physics Full Book

Sr	Questions	Answers Choice
1	When a conductoris moved across a magnetic field:	A. Emf induced its similar to that of a battery B. Emf induced gives rise to induced current C. An emf is induced across its ends D. All are correct E. None of these
2	The electric field intensity at a point due to a point charge	A. Falls off inversely as the distance B. Falls off inversely as the square of distance C. Remains unchanged with distance D. Increase directly as square of distance
3	The results of mechanical tests are usually expressed in terms of	A. stress B. strain C. stress and strain D. neither strees nor strain
4	From sand, we get a material used for construction with the motion of bodies under the action of forces is called:	A. Optics B. Mechanics C. Thermodynamics D. Astrophysics
5	When a horse pulls a cart, the force that makes the horse run forward is the force exerted by	A. The horse on the ground B. The horse on the cart C. The ground on the horse D. The ground on the cart
6	A relationship between Gauses of magnetic induction and Tesla(T) is given by	A. G 10 ⁻³ T B. G = 10 ⁻² T C. G = 10 ⁻⁴ T D. G = 10 ⁻¹ T
7	A 60 W bulb operates on 220 V supply. The current flowing through the bulb is	A. 11/3 A B. 3 A C. 3/11 A D. 6
8	Inertial frame of references are those frame of references which are moving with	A. increasing velocity B. decreasing velocity C. constant velocity D. all of them
9	The alternative voltage of current is actually measured by:	A. Its RMS value B. Square root of its mean square value C. Instantaneous value D. Peak value E. Both (A) and (B)
10	In a three phase a.c. generator, there are	A. 2 coils B. 3 coils C. 1 coild D. No coil
11	Conventionally the angular velocity is directed to an angle of:	A. 90 ° to the axis of rotation 1. 301. 30 1. 301. 30 2. 50 1. 30 1. 30 2. 50 1. 30 1. 30 2. 50 1. 30 1. 30 2. 60 1. 30 2. 60 1. 30 2. 50 1. 30 2. 50 1. 30 2. 50 3. 50 3. 50 4. 50

		C. U ° to the axis of rotation D. None of the above
12	Specific resistance of a wire depends upon	A. Length B. Cross-section area C. Mass D. None
13	The direction of induced current is always so as to oppose the cause which produces it. This is	A. Lenz's law B. Ampere's law C. Faraday's law D. Coulomb's law E. None of these
14	In case of planets, the necessary acceleration is provided by:	A. Gravitational force B. Coulomb force C. Frictional force D. None of these
15	The three equation of motions are useful only for	A. linear motion with increasing acceleration B. line motion with uniform acceleration C. linear motion with zero acceleration D. linear motion with varying acceleration
16	A man fires a bullet of mass 200 g at a speed of 5 m/s. The gun is of one kg mass. By what velocity the gun rebounds backwards?	A. 0.1 m/s B. 10 m/s C. 1 m/s D. 0.01 m/s
17	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 D. 1.28 x 10 ⁻¹ D. 1.28 x 10 ⁻¹ JK ⁻¹ JK ⁻¹ D. 1
18	Inertia mass and gravitational mass are	A. opposite B. identical C. identical when there is no friction D. all of them
19	If a wave can be polarized, it must be	A. An electromagnetic wave B. A longitudinal wave C. A progressive wave D. A transverse wave
20	Acceleration in a body is always produced in the direction of :	A. Velocity B. Weight C. Force D. Both B and C