

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

Sr	Questions	Answers Choice
1	With the increase of temperature viscosity	A. Increase B. Decrease C. Remains same D. Doubles
2	When small number of atoms from some other suitable element is added to the semi-conductor material, then this process is known as	A. impurification B. adding C. doping D. extrinsivity
3	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
4	Distance traveled by a body falling from rest in the first, second and third second is in the ration of	A. 1 : 2 : 3 B. 1 : 3 : 5 C. 1 : 4 : 9 D. None of the above
5	The formula of Brackett series can be obtained by putting in the general formula, the value of n equal to:	A. one B. two C. three D. four E. five
6	Radian is defined as the angle subtended at the center of a circle by an arc of:	A. Length equal to its diameter B. Length equal to its radius C. Any length D. None of these
7	A piece of fuse wire melts when a current of 15 ampere flows through it. With this current. If it dissipates 22.5 W, the resistance of fuse wire will be	A. Zero B. $10 \Omega$ C. $1 \Omega$ D. $0.10 \Omega$
8	If $F=0.04 \text{ N}$ and $X=4 \text{ cm}$ then $K=$	A. $1 \text{ Nm}^{-1}$ B. $2 \text{ Nm}^{-1}$ C. $3 \text{ Nm}^{-1}$ D. $4 \text{ Nm}^{-1}$
9	A body is thrown from a height h with speed u, it hits the ground with speed V	A. The value of V is maximum if the body is thrown vertically downward B. The value of V is maximum if the body is thrown vertically upwards C. The value of V is minimum if the body is thrown horizontally D. The value of V does not depend on the direction of which it is thrown
10	The law of conservation of mass gives us the	A. equation of continuity B. Bernoulli's theorem C. both of them D. none of them
11	An object thrown in arbitrary direction in space with an initial velocity and moving freely under gravity will follow	A. a circular path B. a straight line C. a hyperbola D. a parabola

12	Work done by the force of friction is always	A. Positive B. Zero C. Negative D. Maximum
13	When a platinum wire is heated, it appears white at	A. 1600 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span> B. 900 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span> C. 1100 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span> D. 1300 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span>
14	In case of metallic conductors, the charge carriers are	A. Protons B. Electrons C. Antiprotons D. Positrons E. Both A and B
15	Which of the following is not thermo dynamical function?	A. Enthalpy B. Work done C. Gibb's energy D. Internal energy
16	The existence of positron was predicted by Dirac in	A. 1920 B. 1925 C. 1930 D. 1928
17	Spectrum represents the number of component colours present in certain light in terms of:	A. Wavelength B. Frequency C. Energy D. Both (A) and (B) E. All of these
18	If a force of 0.05 N produces an elongation of 20 mm in a string, then its spring constant will be:	A. 250 N m <sup>-1</sup> B. 25 N m <sup>-1</sup> C. 2.5 N m <sup>-1</sup> D. None of these
19	The magnetic force exerted on an electron moving with velocity 'v' at right angle to the magnetic field is given by	A. $F=eVB$ B. $F=e^2V/B$ C. $F=e/VB$ D. $F=B^2/eV$
20	The electric flux from a closed surface	A. Is independent of the shape of the surface B. Depends on the charge enclosed by the surface C. Both a and b D. None of the above