

## ECAT Physics Online Test

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Sr	Questions	Answers Choice
1	When a body is pulled away from its rest or equilibrium position and then released, the body oscillates due to	A. applied force B. momentum C. restoring force D. none of them
2	If the stress increased beyond the elastic limit of the material, the deformation produced in the material will be	A. permanent B. temporary C. either of them D. none of them
3	Which of the following is not thermo dynamical function?	A. Enthalpy B. Work done C. Gibb's energy D. Internal energy
4	The gavanometer constant of a moving coil galvanometer is given by	A. K=BANC B. K=BN/CA C. K=NAC/B D. K=C/BAN
5	A ball is dropped vertically down and it takes time t to reach the ground. At time t/2	A. The ball had covered exactly half the distance B. The velocity of the ball was V/3 where V is the velocity when it reached the ground C. The ball had covered less than half the distance D. The ball had covered more than half the distance
6	The threshold frequency of sodium is $6 \times 10^6 \text{MHz}$ . The cut-off wavelength for this metal will be	A. 500 m B. 500 nm C. 500 km D. 500 cm E. None of these
7	An inertial frame of reference is that frame of reference in which	A. <b>a</b> = 0 B. <b>a</b> > 0 C. <b>a</b> < 0 D. all of them
8	The force exerted by the fluid in a hydraulic pump on the piston is 10 cm <sup>2</sup> , the fluid pressure on the piston is, in N/cm <sup>2</sup>	A. 20 B. 200 C. 2000 D. 20,000
9	In a transistor, if the central region is p-type then this type of transistor is known as	A. p-n-p transistor B. n-p-n transistor C. either of these D. none of these
10	If the length of the conductor is double and its cross sectional area is halved, its conductance will	A. Increase four fold B. Become one-fourth C. Become one-half D. Remains unchanged
11	When a suitable small resistance is put in parallel with the galvanometer coil, it is converted into	A. Voltmeter B. Avometer C. Ammeter D. None of these
12	Alternating current is produced by a voltage source which polarity:	A. Remains the same B. Reverse after period T C. Keeps on reversing with time D. Reverse after every time interval T/2 E. Both (C) and (D)
13	For normal operation of transistor, the batteries	A. V <sub>CC</sub> is of much lower value than V <sub>BB</sub> B. V <sub>CC</sub> is of much higher value than V <sub>BB</sub> C. V <sub>CC is equal to</sub> V <sub>BB</sub> D. none of these

Compton was awarded Nobel prize in physics in	A. 1921 B. 1923 C. 1925 D. 1927
Galvanometer is a device used for the detection of	A. voltage B. current C. temperature D. pressure
While deriving equation of pressure by kinetic theory of gases, we take into account:	A. Only linear motion of molecules     B. Only rotational motion     C. Only vibratory motion     D. All of these
A water hose with an internal diameter of 20 mm at the outlet discharges 30 kg of water in 60 s. What is water speed at the outlet if density of water is 1000 kg/m <sup>3</sup> during its steady flow	A. 1.3 m/s B. 1.6 m/s C. 1.9 m/s D. 2.2 m/s
An atom in which there is a resultant magnetic field, behaves like a tiny magnet and is called as	A. magnetic B. magnetic dipole C. magnetic monopole D. none of them
If a 40 watt light bulb burns for 2 hours. how much heat is generated	A. 288 x 10 <sup>3</sup> J B. 288 x 10 <sup>8</sup> J C. 288 x 10 <sup>5</sup> J D. 288 x 10 <sup>5</sup> J
A typical rocket consumes about	A. 100 kg s <sup>-1</sup> of fuel B. 1000 kg s <sup>-1</sup> of fuel C. 10000 kg s <sup>-1</sup> of fuel D. 100000 kg s <sup>-1</sup> of fuel
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