

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	In flesh, light element like carbon, hydrogen and oxygen predominate. Three elements allows amount of incident X-ray to pass through them	A. Small B. Greater C. Equal D. Sometimes
2	The word amorphous means:	A. Without any structure B. With definite structure C. Regular arrangement of molecules D. Both (B) and (C) E. None of these
3	If the external driving force is periodic with a period compareable to the natural period of the oscillator, then we get	A. diffraction B. beat C. interference D. resonance
4	The critical temperature of tin is	A. 1.18 K B. 4.2 K C. 3.72 K D. 7.2 K
5	The ohm's is defined as	A. 1 ampere / 1 volts B. 1 coulomb / 1 volt C. 1 volt / 1 ampere D. 1 volt / 1 coulomb
6	The relation between charge 'Q' and current 'l' is given by	A. Q = I/t B. Q = It C. Q = I ² t D. Q = I ² /t
7	A stone is dropped from rest from the top of a tower 19.6 m high. The distance traveled during the last second of its fall is (giving g=9.8 m/s $^{\rm S}$)	A. 9.8 m B. 14.7 m C. 4.9 m D. 19.6 m
8	A ten ohm electric heater operates on a 110 V line. Calculate the rate at which it develops heat in watts	A. 1310 W B. 670 W C. 810 W D. 1210 W
9	The unit of decay constant is	A. sex B. sec ² C. sec ⁻¹ D. sec ⁻²
10	The instantaneous velocity of a body moving along a circle is directed	A. along the radius B. along the tangent C. away from the circle D. none of them
11	A force of 5 n is acting Y-axis. Its component along X-axis is:	A. 7 N B. 5 N C. Zero D. 10 N
12	If the distance between two charges is doubled, the force between them will become:	A. Double B. Half C. One third D. One fourth
13	If a 40 watt light bulb burns for 2 hours. how much heat is generated	A. 288 x 10 ³ J B. 288 x 10 ⁸ J C. 288 x 10 ⁵ J D. 288 x 10 ⁵ J
14	Selenium is:	A. An insulator B. A conductor C. Both A and B D. Excellent conductor E. None of these
15	The bicvcle pump provides a good example of	A. first law of thermodynamics B. second law of thermodynamics

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16	The figure 1.007276μ shows the mass of an:	A. Atom B. Positron C. Electron D. Neutron E. Proton
17	In RC series circuit the time during which the capacitor acquires 0.63 times the equilibrium charge is called	A. Time constant B. Decay constant C. None of these D. All of above
18	A lift is descending at a constant speed V. A passenger in the lift drops a coin. The acceleration of the coin towards the floor will be	A. Zero B. g Cg D. V + g
19	According to the equation of continuity, when water falls from the tap, it's speed increases and its cross-sectional area	A. decreases B. increases C. becomes zero D. none of them
20	Electric field strength is defined as	A. Work done on unit charge B. Force exerted on unit charge C. Distance covered by unit charge D. Power exerted by unit charge E. None of these