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

Sr	Questions	Answers Choice
1	Significant figures in 0.2020 are:	A. Two B. Three C. Four D. Five
2	The process in which energy is dissipated from the oscillating system is known as	A. resonance B. interference C. diffraction D. damping
3	The intensity at a point due to a charge is inversely proportional to	A. Amount of charge B. Size of the charge C. Distance between charge and the point D. Square of the distance from the charge E. None of these
4	An electron of charge e coulomb passes through a potential difference of V volts its energy in joules will be	A. V/e B. eV C. e/V D. V
5	In describing function of digital systems, 1 represents:	A. Closed switch B. True Statement C. Lighted bulb D. Only (B) and (C) E. All are true
6	In series RC circuit when $R=X_C$, then the phase angle is	A. 0° B. 90° C. 70° D. 45°
7	Magnetic lines of force:	A. Cannot intersect at all<o:p></o:p> B. Intersect at infinity<o:p></o:p> C. Intersect within magnet<o:p></o:p> D. Intersect at Neutral Point<o:p></o:p> E. None of these
8	The distance from eye to near point is taken as:	A. 10 cm B. 15 cm C. 20 cm D. 25 cm
9	F = I(L x B) is a	A. vector B. scalar C. unit vector

		C. unit vector D. none of these
10	The value of the potential difference across the depletion region for the case of germanium is	A. 0.3 V B. 0.5 V C. 0.7 V D. 0.9 V
11	Physical quantities are often divided into _____ categories	A. 3 B. 2 C. 9 D. 5
12	When transistors are used in digital circuits they usually operate in the	A. Active region B. Breakdown region C. Saturation and cutoff regions D. Linear region
13	Which of the following is scalar quantity?	A. Electric potential B. Velocity C. Momentum D. Force
14	A sphere of mass m and velocity 2 V moving in the x direction collides with a sphere of mass 2m and velocity v moving in the direction. It the collision is perfectly elastic, which of the following statements in correct	A. The two spheres sticks together after impact B. The total kinetic energy before the impact in 3 mv3 C. The total momentum before impact is 4 mv D. Both B and C
15	In the doping process, the ratio of the doping atoms to the semi conductor atom is	A. 1 to 10 B. 1 to 10³ C. 1 to 10⁶ D. 1 to 10⁹
16	If an iron ball and a wooden ball of the same radius was released from a height 'h' in vacuum, then time taken by both of them to reach ground will be	A. Unequal B. Exactly equal C. Roughly equal D. Zero
17	Where the streamlines are very far apart from each other, the pressure will be	A. low B. zero C. high D. all of them
18	The Space around the Earth within which it exerts a force of attraction on other bodies is known as	A. Nuclear field B. Conservative field C. Electric field D. Gravitational field
19	To and fro motion of a body is about its mean position is known as:	A. Translatory motion B. Vibratory motion C. Rotatory motion D. None of these
20	Liquids and gasses have	A. zero viscosity B. non-zero viscosity C. very large viscosity D. very small viscosity