

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The SI unit of electric flux is	A. Weber B. Nm ² C ⁻¹ C. NmC ⁻¹ D. Nm ⁻² C
2	Physics deals with the study of	A. Matter B. Energy C. Both of them D. Human Body
3	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
4	By which velocity a ball be projected vertically so that the distance covered by it in 5th seconds is twice the distance it covers in its 6th second ($g=10m/s^2$)	A. 58.8 m/s B. 49 m/s C. 65 m/s D. 19.6 m/s
5	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
6	In case of the three dimensional deformation, when volume is involved, the ratio of applied stress to volumetric strain is called	A. Young's modulus B. Bulk modulus C. Shear modulus D. all of them
7	Change in momentum is one second called.	A. Impulse B. Force C. Energy D. Work
8	The example of irreversible process is	A. slowly liquification B. slowly evaporation C. an explosion D. all of them
9	The displacement of body executing SHM is	A. x _o coswt B. x _o sinwt C. x _o sin ² wt D. Both A, B
10	Photocell is a device which converts	A. chemical energy into electrical energy B. electrical energy into light energy C. heat energy into electrical energy D. light energy into electrical energy
11	A bar 1.0 m in length and located along x-axix moves with a speed of 0.75 c with respect to a stationary observer. The length of the bar as measured by the stationary observer is	A. 1.66 m B. 1.0 m C. 0.66 m D. 2.66 m
12	Which one of the following can act approximately as a source of monochromatic light;	A. Neon lamp B. Fluorescent tube C. Sodium lamp D. None of these
13	The mechanics, which deals with the objects moving with velocities approaching that of light is called:	A. Relativistic mechanics B. Wave mechanic C. Quantum mechanics D. Statics
14	In an A.C circuit with resistor only, the current and voltage have a phase angle of	A. 90 ° B. 0 ° C. 180 °

		size: smail; > D. none of these
15	What is another name for laminar flow?	A. streamline B. unsteady flow C. turbulent flow D. both (a) and (b)
16	For maximum linear distance of travel, a projectile must be fired at an angle of	A. 0 ° B. 45 ° C. 90 ° D. 60 °
17	Work done is maximum when angle between force and displacement is	A. 0° B. 90° C. 180° D. None of these
18	A body of weight 1 N has a kinetic energy of 1 joule when its speed is:	A. 1.46 m sec ⁻¹ B. 2.44 m sec ⁻¹ C. 3.42 m sec ⁻¹ D. 4.43 m sec ⁻¹
19	A shunt resistance parallel to the galvanometer is used to convert it into	A. avometer B. millimeter C. voltmeter D. none of these
20	The induced current in the loop can be increased by:	A. Using a stronger magnetic field B. Moving the loop faster C. Replacing the loop by a coil of many turns D. All above E. Both (A) and (B)