

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Distance to nearest galaxy from earth is	A. 10^{10} m B. 10^{15} m C. 10^{40} m D. 10^{30} m
2	During the positive half-cycle in the half-wave rectification, the diode	A. does not conduct B. conducts C. either of these D. neither of these
3	Capacitance of two or more capacitors	A. Increases in series combination B. Increases in parallel combination C. Remains unchanged D. None of the above
4	One radian is:	A. Greater than one degree B. Less than one degree C. Equal to degree D. none of these
5	When a force is applied on a body, several effects are possible. Which of the following effect could not occur?	A. the body rotates B. the body speeds up C. the mass of the body decreases D. the body changes its direction
6	The velocity of falling raindrops attains limited value because of	A. Up thrust of air B. Air currents of the earth atmosphere C. Surface tension effect D. Viscous force exerted by air
7	The closed loop gain of the non-inverting amplifier is given by	A. $G = \frac{R_2}{R_1}$ B. $G = -\frac{R_2}{R_1}$ C. $G = 1 + \frac{R_2}{R_1}$ D. $G = 1 + \frac{R_2}{R_1}$
8	Taking the earth to be a spherical conductor of diameter 12.8×10^3 km. Its capacity will be	A. $711 \mu F$ B. $611 \mu F$ C. $811 \mu F$ D. $511 \mu F$
9	A metastable state:	A. Is an excited state B. Is that in which excited electron is stable C. Is that in which excited electron is usually unstable D. Means a time interval of 10^{-8} second E. Both (A) and (C)
		A. friction

10	The efficiency of petrol engine is usually not more than 25% to 30% because of	B. heat losses C. both of them D. none of them
11	The SI units of momentum is	A. kg m s^{-2} B. kg ms C. kg m s^2 D. N-s
12	When a stress changes the shape, it is called the	A. compressional stress B. tensile stress C. shear stress D. any one of them
13	A second's pendulum is a pendulum whose time period is	A. 1 second B. 2 seconds C. 3 seconds D. 4 seconds
14	When a shell explodes in mid-air, its fragments fly off in	A. only one direction B. in two direction C. different directions D. a particular direction
15	The henry is the unit for	A. Resistance B. Magnetic flux C. Magnetic field D. Inductance
16	Plan of a coil makes an angle of 20° with the lines of magnetic field. The angle between B and vector area of plane of coil is:	A. Also 20 B. 70 C. 90 D. 180 E. None of these
17	The slopes of the tangent at any point on the curve gives the value of the	A. average velocity at that point B. instantaneous velocity at that point C. average acceleration at that point D. instantaneous acceleration at that point
18	Bodies falling freely under gravity provide good example of motion under	A. non-uniform acceleration B. uniform acceleration C. variable acceleration D. increasing acceleration
19	An inertial frame of reference is a frame of reference which is	A. at rest B. moving with uniform velocity C. either at rest or moving with uniform velocity D. none of these

