Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The SI unit of magnetic permeability is	A. WB A⁻¹m⁻¹ B. WB mA⁻¹ C. WB Am⁻¹ D. None of these
2	Field lines are closer to each other in the region where the filed is	A. Stronger B. Weaker C. Much weaker D. Absent E. None of these
3	The capacity of a parallel plat capacitor depends on the	A. Type to metal used B. Thickness of plates C. Potential applied across the plates D. Separation between the plates
4	The materials in which there are plenty of free electrons for electrical conduction are known as	A. conductors B. insulators C. semi-conductors D. all of them
5	The value of current at resonance in series LCR circuit is affected by the value	A. R only B. C only C. L only D. R, C and L
6	If the distance between two charges is doubled, the force between them will become:	A. Double B. Half C. Three times D. One fourth E. One third
7	Experiments revealed that the ratio of the stress to the strain is a constant value for	A. different material B. all materials C. a given material D. all of them
8	A structure of polymeric solid is:	A. An ordered structure B. A disordered structure C. Intermediate between order and disorder D. Any of these E. None of these
9	A toy car moves around a circular track of radius 0.3 m at the rate of 120 rev/min. The speed V of the car is:	A. 38 m/sec B. 3.8 m/sec C. 0.6 m/sec D. None of these
10	In vibrational motion(SHM)	A. P.E remains conserved B. Average K.E remain constant C. Neither P.E nor K.E remains constant D. Total energy remains constant
11	A non-inertial frame of reference is that frame of reference in which	A. a = 0 B. a > 0 or a < 0 C. v = 0 D. none of them
12	From the theory of relativity, momentum p of the photon is related to energy as	A. p = hfc B. p = hf/c C. p = f(hc,f) D. p = cf/h
	When a constant potential difference is applied across the conductor, the drift	A. Increases<o:p></o:p> B. Decreases<o:p></o:p> C.

13	When a constant potential difference is applied across the conductor, the drift velocity of electrons:	<span style= font-size: 12pt; line-height: 107%; font-family: "Times New Roman", serif;">Remains the constant<o:p></o:p> D. Either of these<o:p></o:p> E. None of these<o:p></o:p>
14	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
15	Within each domain, the magnetic field of all the spinning electrons are	A. parallel B. antiparallel C. perpendicular D. all of them
16	Field lines are closer to each other in the region where the field is:	A. Stronger<o:p> </o:p> B. Weaker<o:p> </o:p> C. Much weaker<o:p></o:p> D. Absent<o:p> </o:p> E. None of these<o:p></o:p>
17	Generally a temperature scale is established by	A. one fixed point B. two fixed point C. three fixed point D. four fixed point
18	The process in which energy is dissipated from the oscillating system is known as	A. resonance B. interference C. diffraction D. damping
19	Tick the conservative force:	A. tension in a string B. Air resistance C. Elastic spring force D. Frictional force
20	The restoring force always directed towards the	A. extreme position B. mean position C. both of them D. none of them