

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	A body moves a distance of 10 m along a straight line under the action of a force of 5 N and work done in 25J. The angle which the force makes with the direction of motion will be	A. 60° B. 90° C. 30° D. 0°
2	In a container having water filled up to a height h, a hole is made in the bottom. The velocity of water flowing out of the hole is	A. Independent of h B. Proportional to $h^{1/2}$ C. Proportional to h D. Proportional to h^2
3	Which of these is not a radiation detector	A. Wilson cloud chamber B. cyclotron acceleration C. Geiger Miller counter D. solid state detector
4	The information from far side of the universe are gathered by:	A. Radio telescope B. Microscope C. Telescope D. Spectro scope
5	If we plot graph between potential difference (V) and current (I) obeying ohm's law, it will give us	A. parabola B. straight line C. hyper bola D. ellipse
6	When temperature increase, the frequency of a tuning fork	A. Increases B. Decreases C. Remains same D. Increase or decreases depending on the material
7	A full-scale deflection is obtained in a galvanometer with a current of few	A. ampere B. volts C. milliampere D. ohm
8	Cause of heat production in a current carrying conductor is	A. Collisions of free electrons with one another B. High drift speed of free electrons C. Collisions of free electrons with atoms or ions of conductor D. High resistance value
9	The body oscillates due to _____ accelerates and overshoots the rest position due to _____:	A. Applied force , inertia B. Restoring force, friction C. Frictional force, inertia D. Restoring force, inertia
10	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
11	The missing mass which is converted to energy in the formation of nucleus, is called	A. packing fraction B. mass defect C. binding energy D. none of these
12	To see the minor details of the object by microscope, it should have:	A. High magnifying power B. High resolving power C. An objective of larger focal length D. None of these
13	The concept of direction and position are purely	A. absolute B. relative C. absolute or relative D. none of these
		A. <p class="MsoNormal" style="text-align: justify;">Electrons</p> B. <p class="MsoNormal" style="text-align: justify;"><span style="font-size: 12.0pt; line-height: 107%; font-family: "Times New</p></p>

14	In gases, the charge carries are:	<p>Roman&quot;, &quot; serif&quot;"/>Positive ions<o:p></o:p></p> C. <p class="MsoNormal" style="text-align:justify">Negative ions<o:p></o:p></p> D. <p class="MsoNormal" style="text-align:justify">Both (A) and (C)<o:p></o:p></p> E. <p class="MsoNormal" style="text-align:justify">Both (A) and (B)<o:p></o:p></p></p>
15	When we consider the average velocity of a body, then the body is moving in	<p>A. straight line B. curved path C. may be in a straight or curved path D. none of them</p>
16	When quarter of a circle is completed, phase of vibration is:	<p>A. 90° B. 180° C. 45° D. 360°</p>
17	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:	<p>A. Also 20°<p class="MsoNormal" style="text-align:justify"><o:p></o:p></p> B. 70°<p class="MsoNormal" style="text-align:justify"><o:p></o:p></p> C. 90°<p class="MsoNormal" style="text-align:justify"><o:p></o:p></p> D. 180°<p class="MsoNormal" style="text-align:justify"><o:p></o:p></p> E. None of these</p>
18	Gaussian surface is always:	<p>A. Rectangular B. Spherical C. Cylinder D. Box shane</p>

E. Any of these

19 On heating, glass gradually softens into a paste like before it becomes a very viscous liquid at almost

- A. 600
- B. 7600
- C. 800
- D. 900

20 Equal charges are given to two spheres of different radii. The potential will

- A. Be more on the smaller sphere
- B. Be more on the bigger sphere
- C. Be equal on both the sphere
- D. Depend on the nature of the material of the sphere