

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The ratio of the gravitational force F_g to the electrostatic force F_e between two electrons at the same distance apart is approximately	A. 9.8 B. 24×10^{19} C. 24×10^{42} D. 24×10^{44}
2	Such oscillations in which the amplitude decreases steadily with time, are called	A. resonance B. force oscillations C. large oscillations D. damped oscillations
3	From sand, we get a material used for construction of computer chips. That material is called:	A. Germanium B. Silicon C. Copper D. Lead
4	A field is uniform and much stronger:	A. Inside a long solenoid B. Outside a long solenoid C. At the end of a long solenoid D. At the central point of long solenoid E. None of these
5	When the different streamlines cannot cross each other, then this condition is known as	A. continuity condition B. turbulent flow condition C. steady flow condition D. none of them
6	When there is no relative motion between the magnet and coil, the galvanometer indicates:	A. No current in circuit B. An increasing current C. A decreasing current D. Either B or C
7	The first super conductor was discovered in	A. 1811 B. 1890 C. 1901 D. 1911
8	A non-inertial frame of reference is that frame of reference in which	A. $a = 0$ B. $a \neq 0$ or $a < 0$ C. $v = 0$ D. none of them
9	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
10	The vast majority of solids are in the form of	A. amorphous structure B. polymeric structure C. crystalline structure D. all of them
11	A unit cell is smallest basic structure which is:	A. One dimensional B. Two dimensional C. Three dimensional D. Four dimensional E. None of these

12	Aluminum is a:	<p>A. Good insulator</p> <p>B. Bad conductor</p> <p>C. Both (A) and (B)</p> <p>D. Excellent conductor</p> <p>E. Semiconductor</p>
13	The SI unit of stress is	<p>A. N/m^2</p> <p>B. Nmc</p> <p>C. dynes/m</p> <p>D. N</p>
14	Static electricity is produced by the transfer of:	<p>A. Electrons</p> <p>B. Protons</p> <p>C. One fluid</p> <p>D. Two fluid</p> <p>E. None of these</p>
15	The waves moving from a sitar to a listener in air are	<p>A. Longitudinal progressive</p> <p>B. Longitudinal stationary</p> <p>C. Transverse progressive</p> <p>D. Transverse stationary</p>
16	Magnetic effect of current is used:	<p>A. In electric motor</p> <p>B. To detect current</p> <p>C. To measure current</p> <p>D. All of these</p> <p>E. None of these</p>
17	The unit of decay constant is:	<p>A. Second</p> <p>B. Metre</p> <p>C. Hour</p> <p>D. Year</p> <p>E. Second^{-1}</p>
18	The temperature of gas is produced by	<p>A. At potential energy of its molecules</p> <p>B. The kinetic energy of its molecules</p> <p>C. The attractive force between its molecules</p> <p>D. The repulsive force between its molecules</p>
19	When resistance of a current carrying wire increases due to rise in temperature, the drift velocity of electrons:	<p>A. Decreases</p> <p>B. Increases</p> <p>C. Remains the constant</p> <p>D. None of these</p>

`<p class="MsoNormal" style="text-align:justify">`
`<span style="font-size:12.0pt; line-height:107%;font-`
`family:"Times New`
`Roman", "serif"">Either of these<o:p>`
`</o:p></p>`
`E. <p class="MsoNormal" style="text-align:justify">`
`<span style="font-size:12.0pt; line-height:107%;font-`
`family:"Times New`
`Roman", "serif"">None of these<o:p>`
`</o:p></p>`

20

The nature of capacity of electrostatic capacitor depends on

- A. Shape
 - B. Size
 - C. Thickness of plates
 - D. Area
-