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ECAT Physics Online Test

Sr	Questions	Answers Choice
1	A point charge A of charge +4μC and another B of charge -1μC are placed in air at a distance 1 m apart. Then the distance of the point on the line joining the charge B, where the resultant electric field is zero, is (in m)	A. 2 B. 1 C. 0.5 D. 1.5
2	Alternating current is produced by a voltage source which polarity:	A. Remains the same B. Reverse after period T C. Keeps on reversing with time D. Reverse after every time interval T/2 E. Both (C) and (D)
3	The liquid which conduct current is known as	A. heating effect B. chemical energy C. electrolyte D. ohm's law
4	A lift is moving up with acceleration equal to 1/5 of that due to gravity. The apparent weight of a 60 kg man standing in lift is	A. 60 kg wt B. 72 kg wt C. 48 kg wt D. Zero
5	A relationship between Gauses of magnetic induction and Tesla(T) is given by	A. G 10⁻³T B. G = 10⁻²T C. G = 10⁻⁴T D. G = 10⁻¹T
6	In bringing an electron towards another electron, electrostatic potential energy of system	A. Decreases B. Increases C. Remains uncharged D. Becomes zero
7	The reverse saturation current in a PN junction diode is only due to	A. Majority carriers B. Minority Carriers C. Acceptor ions D. Donor ions
8	Which quantity is important in stating the entropy of the system	A. initial entropy B. final entropy C. change in entropy D. none of them
9	A field is uniform and much stronger:	A. <p class="MsoNormal" style="text-align:justify">Inside a long solenoid<o:p></o:p></p> B. <p class="MsoNormal" style="text-align:justify">Outside a long solenoid<o:p></o:p></p> C. <p class="MsoNormal" style="text-align:justify">At the end of a long solenoid<o:p></o:p></p> D. <p class="MsoNormal" style="text-align:justify">At the central point of long solenoid<o:p></o:p></p> E. <p class="MsoNormal" style="text-align:justify">None of these<o:p></o:p></p>
10	When a body is pulled away from its rest or equilibrium position and then released, the body oscillates due to	A. applied force B. momentum C. restoring force D. none of them

11	When a conductor is moved across a magnetic field, the redistribution of charge sets up:	A. Magnetic field B. Electrostatic field C. Electromagnetic field D. All of these E. None of these
12	Bernoulli's equation is important in the field of	A. Electrical circuit B. Magnetism C. Photoelectric effect D. Flow of fluids
13	The basis to define a temperature scale that is independent of material properties is provided by	A. carbon cycle B. nitrogen cycle C. Carnot cycle D. irreversible cycle
14	As the current flow through the wire:	A. <p class="MsoNormal" style="text-align:justify">It generates heat in the wire<o:p></o:p></p> B. <p class="MsoNormal" style="text-align:justify">It produces sound in the wire<o:p></o:p> </p> C. <p class="MsoNormal" style="text-align:justify">Resistance of the wire decreases<o:p></o:p> </p> D. <p class="MsoNormal" style="text-align:justify">Voltage across the ends is increased<o:p></o:p> </p> E. None of these
15	Good absorbers of heat are	A. Poor emitters B. Non emitters C. Good emitters D. Highly polarized
16	Nuclei that have the same charge number but different mass number are called	A. isotones B. isomers C. isotopes D. isobars
17	Bernoulli's equation is based upon law of conversation of	A. mass B. momentum C. Energy D. None
18	Which of the following is not an example of intertial frame	A. a body placed on the surface of earth B. a body placed in a car moving with uniform velocity C. a body placed in a car moving with same acceleration D. none of these
19	When small number of atoms from some other suitable element is added to the semi-conductor material, then this process is known as	A. impurification B. adding C. doping D. extrinsivity
20	Amorphous solids:	A. Have definite melting points B. Are called glassy solids C. Have no definite melting point D. Both (B) and (C) E. Both (A) and (C)