

ECAT Pre General Science MCQ's Test For Physics Full Book

Sr	Questions	Answers Choice
1	The power dissipation in a pure inductive or capacitance circuit is	A. maximum B. positive C. zero D. none
2	The units of modulus of elasticity are	A. Nm ⁻² B. Nm C. ms ⁻¹ D. Pascal
3	Each atom in metal crystal:	A. Remains fixed B. Vibrates about a fixed point C. Moves randomly D. Rotates about center of a crystal E. None of these
4	A ball falls on the surface from 10 m height and rebounds to 2.5 m. if the duration of contact with the floor is 0.01 seconds then the average acceleration during contact is	A. 2100 m/s ² B. 1400 m/s ² C. 700 m/s ² D. 400 m/s ²
5	Which quantity has different dimension:	A. Work B. Pressure C. Energy D. Torque
6	According to the second law, which is must to produce work	A. a source contains a large amount of heat energy B. two sources at the same temperature C. two sources at the different temperatures D. a source contains a small amount of energy
7	While finding the electric intensity at a point between two oppositely charged parallel plates, the Gaussian surface is taken in the form of a hollow:	A. <index:or:p> B. C. Sphere<o:p></o:p> D. Box<o:p></o:p> E. <span "times="" font-size:12.0pt;line-height:107%;font-family:="" new<="" style='font-size:12.0pt;line-height:107%;font-family: "Times New Roman",aquot;serif";mso-fareast-font-family:"Times New Roman",aquot;serif"font-family:"Times New Roman"hont-family:"Times New Roman"hont-family:"Times New Roman"hont-family:"Times New Roman"hont-family:"Times New Roman"hont-family:"Times New Roman"hont-fami</th></tr><tr><td></td><td></td><td>A. </index:or:p>

A. A. class="MsoNormal"><span style="font-size:12.0pt;line-height:107%;font-family:
"Times New
Roman","serif"">Straight
lines<0:p></o:p>
B. class="MsoNormal"><span style="font-size:12.0pt;line-height:107%;font-family:
":Times New</pre>

8	In case of two identical charges placed certain distance apart, the electric field lines are:	Roman","serif"">Sine curves<0:p> C. Curved<0:p> D. Both (A) and (B)<0:p> E. Nont-family: "Times New Roman","serif"">None of these<0:p>
9	CT scanning is the abbreviated name of	A. Computed Technology B. Computed Technique C. Computed Technology D. Computerized Technique
10	An object undergoes S.H.M has maximum speed when its displacement from the mean position is	A. maximum B. zero C. half of the maximum value D. one third of the maximum value
11	Work done along a closed path in a gravitational force is:	A. maximum B. Minimum C. Zero D. Unity
12	A force of 50 dynes is acted on a body of mass 5 g which is at rest, for an interval of 3 seconds, then impulse is	A. 0.15 x 10 ⁻³ Ns B. 0.98 x 10 ⁻³ Ns C. 1.5 x 10 ⁻³ Ns D. 2.5 x 10 ⁻³ Ns
13	When the temperature of source and sink of a heat engine become equal entropy change will be	A. Zero B. Max C. Min Dve
14	The resistance offered by a fluid to a solid moving inside it is called:	A. Drag force B. Surface force C. Viscosity D. None of these
15	Which of the following statements for an object in equilibrium is not true?	A. The object must be at rest B. The object can be at rest C. The object is moving at constant speed D. The acceleration of the object is zero
16	Nucleon means:	A. Only electrons B. Only neutrons C. Only protons D. Both (A) and (C) E. Both (B) and (C)
17	A metal plate of thickness half the separation between the capacitor plates of capacitance C is inserted. The new capacitance is	A. C B. C/2 C. Zero D. 2C
18	Carnot heat engine only used	A. isothermal processes B. adiabatic processes C. both of them D. none of them
19	The photoelectric effect, the maximum energy of photoelectrons depends on the	A. particular metal surface B. frequency of incident light C. both of them D. none of them
20	If the formula PV = nRT, n denotes:	A. Number of molecules per unit volume B. Number of moles C. Number of molecules D. None of these