

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

Sr	Questions	Answers Choice
1	Electromagnetic waves emitted by hot bodies are called:	A. Photoelectrons B. Alpha rays C. Thermal radiation D. None of these
2	Which one of the following is an example of SHM	A. Motion in a plane B. Motion in a swing C. Motion in a car D. None of these
3	Which of the following is most suitable as the core of transformer	A. Soft iron B. Alinco C. Steel D. None of these
4	The word amorphous means:	A. Without any structure B. With definite structure C. Regular arrangement of molecules D. Both (B) and (C) E. None of these
5	If the ratio of densities of two gases is 1:4, then the ratio of their rates of diffusion into one another is	A. 2 : 1 B. 4 : 1 C. 1 : 4 D. 3 : 4
6	A particle is moving in a straight line with velocity $v = (4-t^2)$ where $t$ is the time from fixed point then acceleration of the particle after 4 sec is.	A. -8 m/sec <sup>2</sup> B. -4 m/sec C. -8 m/sec D. - 4 m /sec <sup>2</sup>
7	Hold the solenoid in the right hand with fingers curling in the direction of current. The direction of the field will be given by:	A. <p style='font-size: 12pt; line-height: 107%; font-family: "Times New Roman", serif;'>Thumb</p> B. <p style='font-size: 12.0pt; line-height: 107%; font-family: "Times New Roman", serif;'>Curled fingers</p> C. <p style='font-size: 12.0pt; line-height: 107%; font-family: "Times New Roman", serif;'>Middle finger</p> D. <p style='font-size: 12.0pt; line-height: 107%; font-family: "Times New Roman", serif;'>Arm of right hand</p> E. <p style='font-size: 12.0pt; line-height: 107%; font-family: "Times New Roman", serif;'>None of these</p>
8	the symbol to be used in relativity problems denotes:	A. Dilated time B. Proper time C. Life time D. Half time E. None of these
9	The acceleration of body executing SHM is directly proportional to	A. Applied force B. Amplitude C. Displacement D. Frictional force
		A. <p style='font-size: 12.0pt; line-height: 107%; font-family: "Times New Roman", serif;'>Displacement</p>

size: 12.0pt; line-height: 107%; font-family: "Times New Roman"; " serif",">Its shaft to revolve</p></span></p>  
 B. <p class="MsoNormal" style="text-align: justify"><span style="font-size: 12.0pt; line-height: 107%; font-family: "Times New Roman"; " serif",">Its brushes to rotate</p></span></p>  
 C. <p class="MsoNormal" style="text-align: justify"><span style="font-size: 12.0pt; line-height: 107%; font-family: "Times New Roman"; " serif",">Motor to move</p></span></p>  
 D. <p class="MsoNormal" style="text-align: justify"><span style="font-size: 12pt; line-height: 107%; font-family: "Times New Roman"; " serif",">Its shafts to rotate<b></p></span></b></span></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</p></span></p>

10 The current that flows through the coil of a motor causes:

11 Which of the following has a great concentration of impurity

12 The slopes of the tangent at any point on the curve gives the value of the

13 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

14 Compton studied the scattering of x-rays by loosely bound electrons from:

15 The practical application of the phenomenon of Mutual induction is

16 The way through which electromagnetic radiations or photons interact with matter depends upon their:

17 At what temperature the adiabatic change is equivalent to the isothermal change?

18 Referring to the above figure, we can say that of all the elements, the most stable element is

19 The dimensions of work

20 The special theory of relativity is based on the

- A. base
- B. emitter
- C. collector
- D. none of these

- A. average velocity at that point
- B. instantaneous velocity at that point
- C. average acceleration at that point
- D. instantaneous acceleration at that point

- A. 60 kg wt
- B. 72 kg wt
- C. 48 kg wt
- D. Zero

- A. NaCl crystal
- B. Graphite crystal
- C. Zirconia
- D. Copper crystal
- E. None of these

- A. Transformers
- B. Generator
- C. Motor
- D. All of these

- A. Wavelength
- B. Frequency
- C. Energy
- D. Temperature
- E. All of these

- A. Zero degree Celsius
- B. Zero Kelvin
- C. Critical temperature
- D. Above critical temperature

- A. Phosphours
- B. Iron
- C. uranium
- D. Lithium
- E. Bismuth

- A.  $[MLT^{sup>-1</sup>}]$
- B.  $[MLT^{sup>-2</sup>}]$
- C.  $[ML^{sup>2</sup>}T^{sup>-2</sup>}]$
- D.  $[MLT]$

- A. one postulate
- B. two postulates
- C. three postulates
- D. four postulates