

## ECAT Physics Online Test

Sr	Questions	Answers Choice
1	A photon is considered to have	A. Momentum B. Energy C. Wavelength D. All of the above
2	The waves in which the particles of the medium are displaced in a direction perpendicular to the direction of propagation of waves are known as	A. longitudinal waves B. transverse waves C. non-mechanical waves D. none of them
3	By CAT scans, we can detect the density difference of the order of:	A. 1% B. 20% C. 30% D. 50% E. 70%
4	Gamma rays consist of steam of	A. electron B. proton C. photons D. all of these
5	During the nuclear changes, the law/s of conservation that hold/s are that of:	A. Charge B. energy C. Momentum D. Mass E. All of these
6	The temperature scale approved in SI units is:	A. Celsius scale B. Kelvin scale C. Fehrenheit scale D. None of these
7	Physics details with the study of:	A. Matter B. Energy C. Both of them D. Human body
8	The magnitude of chemical Effects depends upon:	A. <p class="MsoNormal" style="text-align:justify"><span style="font-size:12.0pt; line-height:107%;font-family:&quot;Times New Roman&quot;,&quot;serif&quot;">Nature of liquid<o:p></o:p></span></p> B. <p class="MsoNormal" style="text-align:justify"><span style="font-size:12.0pt; line-height:107%;font-family:&quot;Times New Roman&quot;,&quot;serif&quot;">Quantity of Electricity passed through the liquid<o:p></o:p></span></p> C. <p class="MsoNormal" style="text-align:justify"><span style="font-size:12.0pt; line-height:107%;font-family:&quot;Times New Roman&quot;,&quot;serif&quot;">Color of the liquid<o:p></o:p></span></p> D. <p class="MsoNormal" style="text-align:justify"><span style="font-size:12.0pt; line-height:107%;font-family:&quot;Times New Roman&quot;,&quot;serif&quot;">Both (A) and (C)<b><o:p></o:p></b></span></p> E. <p class="MsoNormal" style="text-align:justify"><span style="font-size: 12pt; line-height: 107%; font-family:&quot;Times New Roman&quot;,&quot;serif;">Both (A) and (B)<b><o:p></o:p></b></span></p>
9	In SHM, the acceleration is _____ when velocity is _____:	A. Zero, smallest B. Smallest, zero C. Zero, zero D. Zero, greatest

10	The unit of spring constant is:	B. Metre C. $\text{Nm}^{-1}$ D. None of these
11	Balmer series lies in that region of electromagnetic wave spectrum which is called:	A. Visible region B. Invisible region C. Infra-red region D. ultraviolet region E. None of these
12	Motional emf is called motional:	A. Electromagnetic force and is measured in newtons B. Electromotive force and is measured in volt C. Electromotive force and is measured in newtons D. Electromagnetic force and is measured in volts E. None of these
13	Density is defined as:	A. Mass per volume B. Volume per mass C. Mass $\times$ volume D. Mass per length
14	A medium of dielectric constant 'K' is introduced between the plates of parallel plate condenser. As a result its capacitance	A. Increase k time B. Decreases k times C. Decreases $1/K$ times D. Remains unchanged
15	Acceleration of a body at any particular instant during its motion is known as	A. average acceleration B. uniform acceleration C. instantaneous acceleration D. all of them
16	When a high energy photon interact with a metal, which of the following effect is most likely to be taken place	A. pair production B. photoelectric effect C. Compton effect D. None of these
17	When charged particle is projected perpendicular to a uniform magnetic field its trajectory is	A. circular B. elliptical C. cycloid D. straight line
18	In thermodynamics, internal energy is the function of	A. temperature B. pressure C. state D. none of them
19	The special theory of relativity is based on:	A. Four postulates B. Three postulates C. Two postulates D. One postulate E. None of these
20	1 amu is equal to	A. $1.66 \times 10^{-24}$ kg B. $1.66 \times 10^{-19}$ kg C. $1.66 \times 10^{-34}$ kg D. $1.66 \times 10^{-27}$ kg