

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	Hotness and coldness of an object is represented in terms:	A. Heat B. Temperature C. Chemical energy D. None of these
2	A black body is	A. an ideal absorber B. an ideal radiator C. both of them D. none of them
3	The most suitable material for permanent magnet is	A. cobalt B. iron C. steel D. alaminium
4	The bridge circuit of full wave rectification uses	A. one diode B. two diode C. three diode D. four diode
5	When electrons in the transmitting antenna vibrate 94000 time per second, they produce radiowaves having frequency	A. 9.4 kHz B. 940 kHz C. 94 kHz D. None of these
6	The unit of decay constant is	A. sex B. sec ² C. sec ⁻¹ D. sec ⁻²
7	Radioactivity was discovered by:	A. Becquerel B. Marie curie C. Pierre curie D. All of them E. None of these
8	If you are moving at relativistic speed between two points that are a fixed distance apart, then the distance between the two points appers	A. larger B. shorter C. equal D. none of these
9	Referring to above figure, current in coil P falls from its maximum value to zero	A. At the instant the switch is closed B. At the instant the switch is opened C. When switch is kept open D. When switch is kept closed E. None of these
10	A diode characteristic curve is a plot between	A. current and time B. voltage and time C. voltage and current D. forward voltage and reversed voltage
11	An aircraft is moving with a velocity of 300 ms ⁻¹ . If all the forces acting on it are balanced, then	A. It still moves with the same velocity B. It will be just floating at the same point in space C. It will be fall down instantaneously D. It will lose its velocity gradually
12	An electric field is generated along the wire when:	A. lts resistance is very high<0:p> B. A constant potential is maintained across the wire<0:p> C. New Roman","serif"Times New Roman","serif"Times New Roman","serif"">Net current through the wire is zero<0:p>

		<pre> D. A constant potential difference is maintained across the wire<o:p></o:p> E. Either (A) or (D)<o:p></o:p></pre>
13	On a cold morning a metal surface will fell colder to touch than a wooden surface, because	A. Metal has high specific heat B. Metal has high thermal conductivity C. Metal has low specific heat D. Metal has low thermal conductivity
14	When heat is added into the system then change in entropy is	A. negative B. positive C. zero D. any one of them
15	Newton's law of motion do not hold in	A. an accelerated frame of reference B. an unaccelerated frame of reference C. both of these D. none of these
16	At the temperature, a body emits radiation which is principally	A. of long wavelengths in the visible region B. of long wavelengths in the invisible infrared region C. of short wavelength in invisible ultraviolet region D. none of these
17	Nuclei that have the same charge number but different mass number are called	A. isotones B. isomers C. isotopes D. isobars
18	If the instantaneous velocity of a body does not change, the body is said to be moving with	A. average velocity B. uniform velocity C. instantaneous velocity D. variable velocity
19	When a bicycle is in motion, the frictional forces exerted by the ground are	A. In the forward direction on both the wheels B. In the backward direction on both the wheels C. In the forward direction on the front wheel and the backward direction on the rear wheel D. In the backward direction on the front wheel and the forward direction on the rear wheel
20	When two spherical conducting balls at different potentials are joined by metallic wire, the current starts:	A. Decreasing from zero to maximum<o:p></o:p> B. Increasing from zero to maximum<o:p></o:p> C. Decreasing from maximum to zero > D. Decreasing from maximum to zero > D. Increasing from maximum to zero<o:p></o:p> E. Both (A) and (D)<<<sp>< < < <p< td=""></p<></sp>

