

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The efficiency of diesel engine is	A. 25% B. 25 - 30% C. 35% D. 35 - 40%
2	Pair production take place when energy of γ -rays photon is	A. equal to 1.02 Mev- B. greater than 1.02 Mev C. less than 1.02 Mev D. none of these
3	INTELSAT operates at frequencies 4, 6, 11, 14 having unit of:	A. KHz B. MHz C. GHz D. BHz
4	The most common source of alternating voltage is:	A. Motor B. Transformer C. AC generator D. Both (A) and (C) E. Both (A) and (B)
5	In the Compton's effect, it is found that the wavelength of incident x-rays is	A. greater than the wavelength of scattered x-rays B. equal to the wavelength of scattered x-rays C. less than the wavelength of scattered x-rays D. any one of these
6	Referring to the above figure, we can say that of all the elements, the most stable element is	A. Phosphorus B. Iron C. uranium D. Lithium E. Bismuth
7	Where the streamlines are very far apart from each other, the pressure will be	A. low B. zero C. high D. all of them
8	Calculate the amount of charge flowing in 2 minutes in a wire of resistance 10Ω when a potential difference of 20 V is applied between its ends	A. 120 C B. 240 C C. 20 C D. 4 C
9	The domains are of macroscopic size of the order of	A. centimeters B. meters C. millimeters D. nanometers
10	The vertical and horizontal range will be equal if angle of projection is	A. 76° B. 45° C. 60° D. 120°
11	If a gymnast is sitting on a rotating stool with his arms outstretched, brings his arms towards the chest, then its angular velocity will:	A. Increase B. Decrease C. Remains constant D. None of these
12	The quantity have dimension of ML^2T^{-2} will have SI unit of:	A. Watt B. Newton C. Joule D. Metre
13	A dirty carpet is to be cleaned by heating. This is in accordance with _____ law of motion:	A. First B. Second C. Third

		<p>C. 1 hrd D. None of these</p>
14	A conducting wire is drawn to double its length. Final resistivity of the material will be	<p>A. Double of the original one B. Half of the original one C. One fourth of the original one D. Same as original one</p>
15	A prism splits a beam of white light into seven component colors. This is so because	<p>A. Phase of different colors is different B. Amplitude of different colors is different C. Wavelength of different colors is different D. Velocity of different colors is different</p>
16	Angular momentum	<p>A. Scalar B. Axial vector C. Polar vector D. At 45° angle</p>
17	Converse of pair production is known as	<p>A. Compton effect B. annihilation of matter C. photoelectric effect D. none of these</p>
18	Rate of flow can be expressed in	<p>A. litre/sec B. litre-sec C. sec/litre D. sec/litre-m</p>
19	Which one of the following could be the frequency of ultraviolet radiation?	<p>A. 1.0×10^6 Hz B. 1.0×10^9 Hz C. 1.0×10^{12} Hz D. 1.0×10^{15} Hz</p>
20	Two forces each of 10 N act on a body, if the force are inclined at 30° and 60° respectively with x-axis, then x-component of their resultant is:	<p>A. 20 N B. 13.66 N C. 10 N D. 8.66 N</p>