

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

Sr	Questions	Answers Choice
1	If yellow light emitted by sodium lamp in Young's double slit experiment is replaced by blue light of the same intensity	A. Fringe width will decrease B. Fringe width will increase C. Fringe width will remain unchanged D. Fringe will become less intense
2	Flight of rocket in the space is an example of	A. Newton's first law B. Newton's third law C. Newton's second law D. all of them
3	The SI unit of capacitance is	A. Farad B. Henry C. Ohm D. Volt
4	In solids, only following type/s of wave can travel:	A. Transverse B. Longitudinal C. Both A and B D. None of them
5	In RLC series circuit, resonance occurs when	A. $X_L > X_C$ B. $X_L < X_C$ C. $X_L = X_C$ D. None of these
6	If a gymnast 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. Remain constant D. None of these
7	A particle executes SHM with frequency. The frequency with which its K.E oscillates is	A. $f/2$ B. $2f$ C. $f$ D. $4f$
8	In the force applied to parallel to the direction of motion, then the work done is:	A. Positive B. Negative C. Zero D. None of these
9	Referring to the above figure, the binding energy per nucleon increases upto mass number equal to:	A. 50 B. 100 C. 150 D. 200 E. 250
10	In radio-active decay, the original element which disintegrate to another element is called	A. element B. daughter element C. parent element D. none of these
11	In case of metallic conductors, the charge carries are:	A. <p>Protons</p> B. <p>Electrons</p> C. <p>Antiprotons</p> D. <p>Positrons</p> E. <p>Both (A) and (B)</p>

12	A virtual image is formed when object is placed:	A. Within focal length of a convex lens B. Near the focal point of a concave lens C. Both A and B D. Away from 2F of a convex lens
13	When the temperature of source and sink of a heat engine become equal entropy change will be	A. Zero B. Max C. Min D. -ve
14	When the particles of the medium vibrate about their mean position, along the direction of the motion of waves, then the waves are called:	A. Longitudinal waves B. Transverse waves C. Water waves D. Complex waves
15	Amount of heat required to raise the temperature of a body through 1 K is called its	A. Specific heat B. Water equivalent C. Thermal capacity D. Entropy
16	In LCR circuit which one of the following statement is correct?	A. L and R oppose each other B. R value increase with frequency C. The inductive reactance increases with frequency D. The capacitive reactance increases with frequency
17	An object is dropped from a height of 100 m. Its velocity at the moment it touches the ground is:	A. 100 m/sec B. 140 m/sec C. 1960 m/sec D. 196 m/sec
18	A meter wire carrying a current of 2A is at right angle to the uniform magnetic field of 0.5 Weber/m <sup>2</sup> The force on the wire is	A. 5N B. 4N C. 1.5N D. 6N
19	In metallic crystals which of the following thing remains constant	A. amplitude of oscillations B. temperature of solid C. average atomic positions D. all of them
20	The change of order of vectors in a dot product of two vectors:	A. Changes its value B. Doesn't change it's value C. Changes the direction product quantity D. None of these