

Physics ECAT Pre Engineering MCQ's Test For Full Book

| Sr | Questions | Answers Choice |
|----|---|---|
| 1 | Tick the conservative force | A. Tension in a string B. Air resistance C. Elastic spring D. Frictional force |
| 2 | If force and displacement are in opposite direction, the work done is taken as: | A. Positive work B. Negative work C. Zero work D. Infinte work |
| 3 | In radioactive decay, the new element which is formed due to the disintegration of original element is called | A. element B. daughter element C. parent element D. none of these |
| 4 | G.P. Thomson observer experimentally that electrons and neutrons possess | A. particle-like properties B. wave-like properties C. neither particle nor wave like properties D. none of these |
| 5 | To observe interference of light, the condition, which must be met with is that the sources must be: | A. Monochromatic B. Phase coherent C. Both of above D. None of above |
| 6 | Which of the following quantity for particle executing SHM is non-zero at mean position | A. Force B. Acceleration C. Velocity D. Displacement |
| 7 | Swimming becomes possible because of _____ law of motion: | A. First B. Second C. Third D. None of these |
| 8 | The circuit which is used to smooth the output voltage of the full-wave rectification is known as | A. transformer B. rectifier C. filter D. none of these |
| 9 | The number of translation degress of freedom for a diatomic gas is | A. 2 B. 3 C. 5 D. 6 |
| 10 | Resistance of a conductor is increased, the currant will | A. Decrease B. Increase C. Remain the same D. None of these |
| 11 | The wave form of SHM is | A. Pulsed wave B. Square wave C. Triangular waved D. Sine wave |
| 12 | When a position comes close to an electron they annihilate into | A. one photon B. two photons which travel in the same direction C. two photons which travels in the opposite direction D. two photons which travel in any direction |
| 13 | A stone tied to the end of a 20 cm long string is whirled in a horizontal circle. If centripetal acceleration is 9.8 m/sec^2 , then its angular velocity is rad/sec is: | A. $22/7$ B. 7 C. 14 D. 21 |
| 14 | Internal energy is the sum of all the forms of | A. K.E B. P.E C. both of them D. none of them |

15 Mass of proton is
A. 1.67×10^{-27} kg
B. 1.67×10^{-31} kg
C. 1.66×10^{-34} kg
D. 1.67×10^{-17} kg

16 Polymeric solids have
A. low specific gravity
B. high specific gravity
C. either of them
D. none of them

17 Change in momentum is one second is called:
A. Impulse
B. Force
C. Energy
D. Work

18 Which of the following is a characteristic of an ideal fluid?
A. it is non-viscous
B. it is incompressible
C. it's motion is steady
D. all of the above

19 Solar cell converts sunlight directly into
A. potential energy
B. thermal energy
C. mechanical energy
D. electrical energy

20 The study of fluid in motion basically involves law of conservation of:
A. Mass
B. Energy
C. Change
D. Both A and C
E. Both A and B