

## Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Speed of Sound in vacuum is.	A. 332 m sec <sup>-1</sup> B. 0. m sec <sup>-1</sup> C. 340 m sec <sup>-1</sup> D. 350 m sec <sup>-1</sup>
2	If the length of second pendulum becomes four times then its time period will become	A. Four time B. Two times C. Six times D. Eight times
3	The inside cavity of the black body is	A. painted white B. painted silver C. blackened with soot D. painted red
4	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
5	The slopes of the tangent at any point on the curve gives the value of the	A. average velocity at that point B. instantaneous velocity at that point C. average acceleration at that point D. instantaneous acceleration at that point
6	Which quantity is important in stating the entropy of the system	A. initial entropy B. final entropy C. change in entropy D. none of them
7	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
8	the dilation of time applies to the timing processes which are:	A. Physical B. Chemical C. Biological D. All of these E. None of these
9	The conductivity of a superconductor is	A. Infinite B. Very large C. Very small D. Zero
10	When radioactive nucleus emits $\alpha$ -particle, the proton-neutron ratio	A. decrease B. increase C. same D. none of these
11	A particle having the mass of electron and charge of a proton is called a	A. photon B. positron C. antiproton D. antineutrino
12	In order to get interference using two light rays	A. The sources should be monochromatic and coherent B. The sources should have the same frequency C. Superposition should be linear D. All of these
13	As the light shines on the metal surface, the electrons are ejected	A. slowly B. instantaneously C. either of these D. none of these
14	When a body is pulled away from its rest or equilibrium position and then released, the body oscillates due to	A. applied force B. momentum C. restoring force D. none of them

15	Work done along a closed path in a gravitational field is:	A. Maximum B. Minimum C. Zero D. Unity
16	Earth is considered to be	A. a non-inertial frame B. an inertial frame C. an accelerated frame D. none of the above
17	If a liquid is heated in weightlessness, the heat is transmitted through	A. Conduction B. Convection C. Radiation D. Neither, because the liquid cannot be heated in weightlessness
18	Velocity of sound in vacuum (in m/s) is	A. 330 B. 1000 C. 156 D. 0
19	Two forces each of the magnitude $F$ act perpendicular to each other. The angle made by the resultant force with the horizontal will be:	A. $30^\circ$ B. $45^\circ$ C. $60^\circ$ D. $90^\circ$
20	An emf is set up in a conductor when it:	A. is kept in a magnetic field B. is kept in a electric field C. Move across a magnetic field D. Both (A) and (B) E. None of these