

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

Sr	Questions	Answers Choice
1	When platinum wire is heated, then at the temperature of 500 $^{ m oC}$ , it becomes:	A. Yellow B. Orange red C. Dull red D. White E. Cherry red
2	Rutherford performed an experiment on nuclear reactions in:	A. 1718 A.D B. 1818 A.D C. 1918 A.D D. 2001 A.D. E. 1701 A.D.
3	Which one of the following wave motions is transverse:	A. Wave motion produced in water when a piece of stone is thrown into i B. Pulling of weight hanging vertically with a spiral spring C. Both of these D. None of these
4	If a freely oscillating system is subjected to an external force, then	A. free vibrations will take place B. the body will move with its natural frequency C. forced vibrations will take place D. none of them
5	Ethanol (alcohol) as a type of:	A. Electric fuel B. Bio fuel C. Nuclear fuel D. None of these
6	A ray passing through optical center of a lens, after refraction:	A. Passes through focus B. Go deviated C. Retraces its path D. Both B and C
7	Body which falls freely under gravity provides good example of motion under:	A. Uniform acceleration B. Non-uniform acceleration C. Uniform velocity D. None of these
8	transverse wave motion is possible in:	A. Air B. A mixture of NH <sub>3</sub> and O <sub>2</sub> C. Strings D. All of these
9	Examples of polymeric substances are:	A. Plastic B. Synthetic rubbers C. Zirconia D. All of these E. Both (A) and (B)
10	The way through which electromagnetic radiations or photons interact with matter depends upon their:	A. Wavelength B. Frequency C. Energy D. Temperature E. All of these
11	Referring to above figure, current in the coil P grows from zero to its maximum value	A. At the instant the switch is closed B. At the instant the switch is opened C. When switch is kept open D. All of above E. Neither of above
12	A black body is	A. an ideal absorber B. an ideal radiator C. both of them D. none of them
13	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

14	Force is a:	A. Scalar quantity     B. Base quantity     C. Derived quantity     D. None of these
15	A gas is compressed adiabatically till its temperature is double. The ratio of its final volume to initial volume will be	A. 1/2 B. More than 1/2 C. Less than 1/2 D. Between 1 and 2
16	When relatively simple molecules are chemically combined into massive molecules, the reaction is called:	A. Fission reaction B. Fusion reaction C. Polymerization D. Any of these E. None of these
17	A pair of quark and antiquark makes a:	A. Meson B. Baryon C. Proton D. Neutron E. None of these
18	The permeability of free space is measured in:	A. Wb/Am B. Wb A/m C. Am/Wb D. m/Web A E. None of these
19	Dimensions of velocity are	A. [L] B. [T] C. [LT <sup>-1</sup> ] D. [LT <sup>-2</sup> ]
20	Work is a Quantity	A. Vector B. Scalar C. Non-physical D. None of these