

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

Sr	Questions	Answers Choice
1	SI Unit of work is	A. Nm ⁻¹ B. Joule C. Nms D. Both a and b
2	The time required for a radioactive material to decrease in active by one half is called	A. half time B. half life C. disintegration time D. mean life
3	In an interference pattern of Young's double slit(YDS) experiment:	A. Bright fringes are wider than dark fringes B. Dark fringes are wider than bright fringes C. Both dark and bright fringes are of equal width D. Central fringes are wider than the outer fringes
4	We can express the work in term of	A. directly measurable variables B. indirectly measurable variables C. either of them D. both of them
5	A particle having mass and charge equal to that of an electron is called:	A. Proton B. Positron C. Pion D. Pi-meson E. Both (C) and (D)
6	Neutron was discovered by	A. Curie B. Roentgen C. Chadwick D. Rutherford
7	In a metal, the valence electrons are:	A. Attached to individual atoms B. Not attached to individual atoms C. Free to move within the metal D. Both A and B E. Both A and C
8	The galvanometer can be made sensitive if the value of the factor C/BAN is	A. constant B. small C. large D. none of these
9	A traveling wave has a shape of:	A. Square wave B. Sine wave C. Parabola D. hyperbola
10	In helium Neon Laser Neon = 15% and Helium = 85% used. The lasing gas this unit is	A. Helium B. Neon C. Both D. None of these
11	When certain nucleus emits αβ-particles, its mass number:	A. Remain same B. Increases by one C. Decreases by one D. Decreases by four E. None of these
12	The thermistors are usually made of	A. Metals with low temperature coefficient of resistivity B. Metals with high temperature coefficient of resistivity C. Metal oxides with high temperature coefficient of resistivity D. Semi conducting materials having low temperature coefficient of resistivity
13	The half life of uranium-238 is	A. 6.2×10^9 years B. 4.5×10^9 days

C. 4.5×10^9 years
D. 1.3×10^6 years

14	On the power stroke, a spark fires the mixtures causing a rapid increase in pressure and temperature and the burning mixture expands	A. adiabatically B. isothermally C. isochorically D. isobarically
15	When a mass attached to a spring begins to move left or right from the equilibrium position, its P.E.:	A. Increases B. Decreases C. Remains constant D. None of these
16	When a force of 0.5 N displaces a body through a distance of 2m in the direction of force, the work done is:	A. 2 J B. 0.25 J C. 1 J D. 0.5 J
17	How is the image formed by a convex lens affected if the upper half of the lens is covered with a paper:	A. The upper half of the image is cut off B. The brightness of the image is reduced C. The brightness of the image is increased D. No effect at all
18	During the steady flow, different streamlines	A. cannot cross each other B. can cross each other C. either of them D. neither of them
19	The work is stored in the inductor as	A. Electric potential energy B. Elastic potential energy C. Magnetic energy D. Absolute potential energy
20	The value of resistivity is the least for:	A. Copper B. Aluminium C. Silver D. Tungsten E. Iron