

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	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
2	The rate of decay of a radioactive substance	A. decrease exponentially with time B. decreases linearly with time C. increases linearly with time D. increases exponentially with time
3	If the focal length of the convex lens is 5 cm, then to get the real and inverted image of the same size as that of object, the object should be placed at:	A. 5 cm B. 20 cm C. 10 cm D. 15 cm
4	Tick the series which lie/s in. the infra-red region.	A. Pfund series B. Brackett series C. Paschen series D. All of these E. None of these
5	The unit of spring constant is:	A. J-sec B. Metre C. Nm ⁻¹ D. None of these
6	Which of the following material has longer half life	A. radium B. polonium C. radium D. uranium
7	In case of constructive interference of two waves, the amplitude of the resultant wave is either of the waves	A. Greater than B. Equal to C. Smaller than D. None of these
8	A force of 5 n is acting Y-axis. Its component along X-axis is:	A. 7 N B. 5 N C. Zero D. 10 N
9	According to the Bernoulli's theorem the pressure velocity are	A. equal to each other B. proportional to each other C. inversely proportional to each other D. none of them
10	The maximum possible error in the reading for a meter rod with least count 1 mm is:	A. 0.005 mm B. 0.05mm C. 0.5mm D. 5.0mm
11	Glycerin has viscosity the viscosity of water:	A. More than B. Equal to C. Less than D. None of these
12	If we connect a A.C. volt meter to read A.C. voltage, It would read its:	A. RMS value B. Instantaneous value C. Valued average over a cycle D. Zero E. Both (B) and (C)
13	The Nobel Prize on the explanation of photoelectric effect was awarded to:	A. Max. Planck B. Maxwell C. Bohr D. Rutherford E. None of these
14	Work has the dimensions as that of	A. Torque B. Angular momentum C. Linear momentum D. Power

15	The absolute temperature of the tripple point of water is	A. 100 °C B. 4 °C C. 373 K D. 273.16 K
16	Wavelength of red colour as compared to that of violet colour is	A. Smaller B. Longer C. Equal D. None of these
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 curoff B. The brightness of the image is reduced C. The brightness of the image is increased D. No effect at all
18	Ohm is the unit of	A. current B. capacitance C. energy D. resistance
19	As the light shines on the metal surface, the electrons are ejected	A. slowly B. instantaneously C. either of these D. none of these
20	The transitions of electrons in the hydrogen atom result in the emission of spectral lies in the:	A. Ultra red region B. Visible region C. Ultraviolet region D. Any of these E. None of these