

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	There is certain frequency below which no electrons are emitted from the metal surface, this frequency is known as	A. maximum frequency B. minimum frequency C. threshold frequency D. all of these
2	In free space, the speed of electromagnetic waves is	A. 3 x 10 ⁸ ms ^{- 1} B. 3 x 10 ⁶ ms ^{- 1} C. 4 x 10 ⁷ ms ^{- 1} D. 3 x 10 ⁹ ms ^{- 1} D. 3 x 10 ⁹ ms ^{- 1}
3	A (100 W , 200 W) bulb is connected to a 160 V power supply. The power consumption would be	A. 64 W B. 80 W C. 100 W D. 125 W
4	The smooth or steady stream-line flow is know as	A. Laminar flow B. Turbulent flow C. Both a and b D. None of the above
5	What must be changing when a body is accelerating uniformly?	A. the force acting on a body B. the velocity of the body C. the mass of the body D. the speed of the body
6	At resonance, the impedance of RLC series circuit is	A. Maximum B. Zero C. Minimum D. Determinate
7	The number of isotopes of hydrogen are	A. 2 B. 1 C. 3 D. 4
8	A traveling wave has a shape of:	A. Square wave B. Sine wave C. Parabola D. hyperbola
9	Which of the following does not obey ohm's law?	A. Copper B. Al C. Diode D. None
10	The year when A.H. compton was awarded Nobel Prize is:	A. 1923 B. 1927 C. 1931 D. 1935 E. None of these
11	Which of the following represents an electric current?	A. C ⁻¹ B. CS ⁻¹ C. J.S ⁻¹ D. dynes ⁻¹
12	Triple point of water is	A. 273.16 °F B. 372.16K C. 273.16 °F D. 273.16
13	Radioactivity was discovered by:	A. Becquerel B. Marie curie C. Pierre curie D. All of them E. None of these

14	The waves which propagate out in space due to oscillation of electric and magnetic fields are known as	A. e.m. waves B. mechanical waves C. sound waves D. water waves
15	Binding energy per nucleus is	A. greater for heavy nucleus B. least for heavy nucleus C. greatest for light nuclei D. decreases for medium weight niclei
16	The natural frequency of a pendulum which is vibrating freely, depends upon its	A. mass B. length C. material D. all of them
17	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
18	Majority charge carriers in the p-region of p-n junction are:	A. electrons B. positrons C. Holes D. Neutrons E. None of these
19	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
20	The space around the earth within which it expects a force of attraction on other bodies is known as:	A. Nuclear field B. Conservative field C. Electric field D. Gravitational field