

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

Sr	Questions	Answers Choice
1	A car is moves around a circular track of radius 0.3 m at the rate of 120 rev/min. The speed v of the car is:	A. 38 m/sec B. 3.8 m/sec C. 0.6 m/sec D. None of these
2	For production of beats the two sources must have	A. Different frequencies and same amplitude B. Different frequencies C. Different frequencies, same amplitude and same phase D. Different frequencies and same phase
3	In case of destructive interference of two waves, the amplitude of the resultant wave will be _____ either of the waves.	A. Greater than B. Smaller than C. Equal to D. None of these
4	When low energy photon interact with a metal, which of the following effect is likely to be taken place	A. pair production B. photoelectric C. Compton effect D. None of these
5	The impedance of RLC series resonance circuit at resonant frequency is	A. Greater than R B. Equal to R C. Less than R D. None of these
6	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
7	The velocity of sound at same temperature is maximum in	A. $H^{>2}$ B. $N^{>2}$ C. $O^{>2}$ D. $NH^{>3}$
8	The charge per unit time through any cross-section of a conductor is called	A. capacitance B. electric power C. current D. potential difference
9	Which of these is not a radiation detector	A. Wilson cloud chamber B. cyclotron acceleration C. Geiger Miller counter D. solid state detector
10	For the working of a heat engine, there must be	A. a source of heat at high temperature B. a sink at low temperature C. both of them D. none of them
11	Number of supplementary units are	A. Three B. Two C. Seven D. Five
12	Bernoulli's equation is based upon law of conservation	A. Mass B. Momentum C. Energy D. None of these
13	Silicon can be obtained from:	A. Lead B. Uranium C. An isotope of oxygen D. Sand
14	In circuit X, L = 100 mH and C= 100 meo F are attached in series. In circuit Y, L=100 mH and C= 10 meo G are attached in parallel. The resonating frequency fx and fy are related	A. $f_x = f_y$ B. $f_x = 10 f_y$ C. $f_x = 0.01 f_y$ D. Cannot be determined

15	The nature of capacity of electrostatic capacitor depends on	A. Shape B. Size C. Thickness of plates D. Area
16	The contrast in the fringes in an interference pattern depends upon	A. Fringe width B. Relative difference intensities of the two sources C. Distance between the slits D. Wavelength
17	Work done along a closed path in a gravitational field is:	A. Maximum B. Minimum C. Zero D. Unity
18	Blood vessels can be stretch like rubber, therefore they are	A. rigid B. hard C. very thick D. not rigid
19	The nature of radiations emitted by a hot body depends upon its:	A. Material B. Temperature C. colour D. Volume E. Length
20	A mass difference of 0.0012 u is equivalent to and energy of:	A. 0.5 Me V B. 1.13 MeV C. 5.13 MeV D. 1.13 keV E. 1.13 eV