

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	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
2	In equation F=ma, then mass 'm' is	A. rest mass B. variable mass C. inertial mass D. gravitational mass
3	The current that flows through the coil of a motor causes:	A. Its shaft to revolve<o:p></o:p> B. Its brushes to rotate<o:p></o:p> C. Notor to move<o:p></o:p> D. Notor to move<o:p></o:p>
4	What is the current is a 2 x 10^6 ohm resistor having a potential difference of 2 x 10^3 volts?	A. 10 ⁻¹ A B. 10 ⁻² A C. 10 ⁻⁴ A D. 1 mA
5	The time period of pendulum, at center of earth.	A. Zero B. Infinite C. Maximum D. Minimum
6	The electric field lines start from	A. Positive charge B. Negative charge C. Either A or B D. Neutron E. An atom
7	The amplitude of oscillation of each atom in a metallic crystal rises with the	A. rise in temperature B. decrease in temperature C. even temperature remains constant D. all of them
8	The equation of continuity $A_1V_1 = A_2V_2$ is for the flow of	A. an ideal fluid B. an incompressible fluid C. a non visconcous fluid D. all of the above
9	When a stress changes length, it is called the	A. compressional stress B. tensile stress C. shear stress D. any one of them
		A. Longitudinal wave

10	There is no net transfer of energy by particle of medium in	B. I ransverse wave C. Progressive wave D. Stationary wave
11	A body with frequency would complete one vibration in:	A. f seconds B. 1/f seconds C. 1 second D. f ² second
12	In LCR circuit which one of the following statement is correct?	A. L and R oppose each other B. R value increase with frequency C. The inductive reactance increases with frequency D. The capacitive reactance increases with frequency
13	The work done on the body will be zero if:	A. No force is applied on the body B. Force is applied but no displacement C. Angle between F(force) and d(displacement) is 90 ° D. All of these are correct
14	Magnetic flux passing through the an element of are A placed perpendicular to a uniform magnetic field Bis:	A. Maximum B. Minimum C. Zero D. Very small E. None of these
15	The force exerted by the fluid in a hydraulic pump on the piston is 10 cm ² , the fluid	A. 20 B. 200
	pressure on the piston is, in N/cm ²	C. 2000 D. 20,000
16	pressure on the piston is, in N/cm ² When a shell explodes in mid-air, its fragments fly off in	
16		D. 20,000 A. only one direction B. in two direction C. different directions
	When a shell explodes in mid-air, its fragments fly off in	D. 20,000 A. only one direction B. in two direction C. different directions D. a particular direction A. total displacement is zero B. average velocity is zero C. none of them
17	When a shell explodes in mid-air, its fragments fly off in If a ball comes back to its starting point after bouncing off the wall several times, then its	D. 20,000 A. only one direction B. in two direction C. different directions D. a particular direction A. total displacement is zero B. average velocity is zero C. none of them D. both of them A. easily oriented along external field and do not return to original random positions B. easily oriented along external field and readily returns to originally random position C. do no oriented along external field and also do not returns to originally random position
17	When a shell explodes in mid-air, its fragments fly off in If a ball comes back to its starting point after bouncing off the wall several times, then its In a soft iron, domains are The highest efficiency of a heat engine whose low temperature is 17°C and the high	D. 20,000 A. only one direction B. in two direction C. different directions D. a particular direction A. total displacement is zero B. average velocity is zero C. none of them D. both of them A. easily oriented along external field and do not return to original random positions B. easily oriented along external field and readily returns to originally random position C. do no oriented along external field and also do not returns to originally random position D. none of them A. 70% B. 100% C. 35%