

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

Sr	Questions	Answers Choice
1	If two waves of length 50 cm and 51 cm produced 12 beats per second, the velocity of sound is	A. 360 m/s B. 306 m/s C. 331 m/s D. 340 ms
2	Two sound waves of slightly different frequencies propagating in the same direction produce beats due to	A. Interference B. Diffraction C. Polarization D. Refraction
3	In the case of an incompressible fluid in stead flow the net rate of flow of mass entering one end of the tube of flow is equal to the net rate of flow of mass leaving the other end. This equation is called	A. Quadratic equation B. Equation of discontinuity C. Equation of continuity D. None of the above
4	The waves in which the particles of the medium have displacement along the direction of propagation of waves are called	A. longitudinal waves B. transverse waves C. non-mechanical waves D. none of them
5	The special theory of relatively treats the problems involving:	A. Inertial frames of reference B. Non-inertial frames C. Non-accelerated frame D. Both (A) and (C) E. Both (B) and (C)
6	Step up transformer has a transformation ratio of 3:2. What is the voltage in secondary, if voltage in primary is 30V:	A. 45 V B. 15 V C. 90 V D. 300 V
7	The velocity of sound is greatest in	A. Water B. Air C. Vacuum D. Metal
8	The product of cross-sectional area of the pipe and the fluid speed at any pint along the pipe is	A. very high B. very low C. constant D. zero
9	The passage of current is accompanied by a magnetic field in the surrounding space:	A. <p style='font-size: 12pt; line-height: 107%; font-family: "Times New Roman", serif;'>Always accompanied</p> B. <p style='font-size: 12.0pt; line-height: 107%; font-family: "Times New Roman", serif;'>Sometimes accompanied</p> C. <p style='font-size: 12.0pt; line-height: 107%; font-family: "Times New Roman", serif;'>Never accompanied</p> D. <p style="font-size: 12pt; text-align: justify;">Any of above</p> E. <p style='font-size: 12.0pt; line-height: 107%; font-family: "Times New Roman", serif;'>None of these</p>
10	The most common source of alternating voltage is:	A. Motor B. Transformer C. AC generator D. Both (A) and (C) E. Both (A) and (B)

11	If the mass of the simple pendulum becomes double, its time period	A. increase B. decreases C. remains constant D. none of them
12	Find the total displacement of a body in 8 seconds starting from rest with an acceleration of 20 cm/s^2	A. 0.064 m B. 640 cm C. 64 cm D. 64 m
13	Velocity of sound in a diatomic as is 300 m/sec. what is its rms velocity?	A. 400 m/sec B. 40 m/sec C. 430 m/sec D. 300 m/sec
14	When a bicycle is in motion, the frictional forces exerted by the ground are	A. In the forward direction on both the wheels B. In the backward direction on both the wheels C. In the forward direction on the front wheel and the backward direction on the rear wheel D. In the backward direction on the front wheel and the forward direction on the rear wheel
15	the symbol to be used in relativity problems denotes:	A. Dilated time B. Proper time C. Life time D. Half time E. None of these
16	If the velocity time graph is a straight line parallel to time-axis, then it means that:	A. The body is moving with uniform velocity B. The body is moving with uniform acceleration C. The body is at rest D. None of above
17	if the field is directed along the normal to the area, then flux is:	A. <p style="text-align: justify;">Maximum</p>
18	Gauss(G) is smaller unit of magnetic induction which is related to tesla(T) as	A. $1 \text{ T} = 10^4 \text{ G}$ B. $1 \text{ T} = 10^5 \text{ G}$ C. $1 \text{ T} = 10^3 \text{ G}$ D. $1 \text{ T} = 10^4 \text{ G}$
19	One radian is equal to:	A. 30.3° B. 45.3° C. 50.3° D. 57.3°
20	Work done along a closed path in a gravitational field is:	A. Maximum B. Minimum C. Zero D. Unity