

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	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. 15 cm B. 10 cm C. 20 cm D. 5 cm
2	The terms phase difference and path difference are:	A. Same B. Different C. Equal D. None of these
3	The magnetic field inside a solenoid can be increased by:	A. Increasing n B. Decreasing I C. Increasing I D. By using iron core within solenoid E. All correct except (B)
4	Above a certain velocity of a fluid is called	A. turbulent flow B. steady flow C. either of them D. both of them
5	There is no way to detect:	A. Absolute uniform motion B. Accelerated motion C. State rest D. State of motion E. None of these
6	If the value of galvanometer constant $k = C/BAN$ is made small, the galvanometer can be made	A. Sensitive B. Accurate C. Stable D. None of these
7	If we plot graph between potential difference (V) and current (I) obeying ohm's law, it will give us	A. parabola B. straight line C. hyper bola D. ellipse
8	A current carrying wire loop is placed in between the poles of a magnet as shown in the figure below. The direction of current flow is also shown in the figure with respect to the axis, the wire loop will tend to.	A. Rotate clockwise B. Not move at all C. Rotate anti-clock wise D. Move towards magnetic north
9	The change of order of vectors in a dot product of two vectors:	A. Changes its value B. Doesn't change it's value C. Changes the direction product quantity D. None of these
10	The bob of a simple pendulum is suspended by	A. string B. heavy inextensible string C. light extensible string D. light inextensible string
11	Faraday's law of electromagnetic induction has been used in the construction of:	A. Galvanometer B. Voltmeter C. Electric motor D. Electric generator E. Commutator
12	A certain force gives an acceleration of 2 m/sec^2 to a body if mass 5 kg. The same force would give a 29 kg object an acceleration of:	A. 0.5 m/sec^2 B. 5 m/sec^2 C. 1.5 m/sec^2 D. 9.8 m/sec^2
13	Max plank received the Nobel Prize in physics for his discovery of energy quanta in	A. 1900 B. 1906 C. 1912 D. 1918
14	A convex lens acts as diverging lens when the object is placed:	A. Between F and $2F$ B. At $2F$ C. With focal length D. Beyond $2F$

15 The effect of friction between different layers of a flowing fluid is described in terms of
A. motion of fluid
B. nature of fluid
C. colour of fluid
D. viscosity of fluid

16 Referring to above figure, current in coil P falls from its maximum value to zero:
A. At the instant the switch is closed
B. At the instant the switch is opened
C. When switch is kept open
D. When switch is kept closed
E. None of these

17 Each atom in a metal crystal vibrates about a fixed point with an amplitude that:
A. Decrease the rise in temperature
B. Is not affected by rise in temperature
C. Increase with rise in temperature
D. Both (B) and (C)
E. None of these

18 What is frequency of radio waves transmitted by a station, if the wavelength of those waves is 300 m?
A. 1 MHz
B. 10 Hz
C. 1 GHz
D. 100000 Hz

19 According to Einstein, with the great increase in the speed of the body, the relativistic mass of the body
A. Remains constant
B. Decreases
C. Increases to infinity
D. Reduced to zero

20 Significant figures in 0.0010 are:
A. Four
B. Three
C. Two
D. One