

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Fluid A is more viscous than fluid B. While flowing through a pipe of the same dimensions and material which fluid takes longer to travel at 25°C?	A. fluid B B. fluid A C. both take the same time D. not possible to determine from given information
2	The magnetism produced by electrons within an atom can arise from	A. electrons orbiting the nucleus B. electrons posses a spin C. both motions D. none of these motions
3	The critical temperature of tin is	A. 1.18 K B. 4.2 K C. 3.72 K D. 7.2 K
4	The current through a metallic conductor is due to the motion of	A. protons B. neutrons C. electrons D. free electrons
5	A car travels first half distance between two places with a speed of 30 km/h and remaining half with a speed of 50 km/h. The average speed of the car is	A. 37.5 km/h B. 10 km/h C. 42 km/h D. 40 km/h
6	In process of annihilation of matter, the two photons produced move in opposite direction to converse	A. momentum B. charge C. energy D. mass
7	A conducting wire is drawn to double its length. Final resistivity of the material will be	A. Double of the original one B. Half of the original one C. One fourth of the original one D. Same as original one
8	Suppose the water flows out from a pipe at 3 kg s^{-1} and its velocity changes from 5 m s^{-1} to zero on striking the wall, then the force exerted by water on wall will be	A. 5 N B. 10 N C. 15 N D. 20 N
9	The liquid which conduct current is known as	A. heating effect B. chemical energy C. electrolyte D. ohm's law
10	A choke coil is used as a resistance in	A. d.c. circuit B. a.c. circuit C. d.c. potentiometer circuit D. wheatstone bridge
11	Melting point of ice	A. Increases with increasing pressure B. Decreases with increasing pressure C. Is independent of pressure D. Is proportional to pressure
12	A dirty carpet is to be cleaned by heating. This is an accordance with _____ law of motion:	A. First B. Second C. Third D. None of these
13	A p-n junction is formed when a crystal of silicon is growth in such a way that its one half is doped with trivalent impurity and the other half with a impurity from	A. 2nd group B. fourth group C. fifth group D. sixth group
14	A pair of quark and antiquark makes a:	A. Meson B. Baryon C. Proton D. Neutron E. None of these
15	Charge on neutron is	A. $1.6 \times 10^{-19}\text{ C}$ B. zero

16 Blood pressure is measured in torr. Which of the following units could belong to torr?

- A. $N m^{-1}$
- B. $N m^{-2}$
- C. N m
- D. $N^{-1} m^{2}$

17 The force acting on a charge moving in a magnetic field

- A. is perpendicular to the both magnetic field and direction of motion
- B. is proportional to the magnetic of charges
- C. vanishes when the motion is directly opposite to the direction of field
- D. all of the above

18 The relation between charge 'Q' and current 'I' is given by

- A. $Q = I/t$
- B. $Q = It$
- C. $Q = I^2 t$
- D. $Q = I^2 t/t$

19 To convert galvanometer into ammeter we connect

- A. small resistance in parallel with galvanometer
- B. small resistance in series with galvanometer
- C. high resistance in series with galvanometer
- D. high resistance in parallel with galvanometer

20 The direction of the streamlines is the same as the direction of the

- A. force
- B. torque
- C. velocity
- D. weight