

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Coulomb force, when any material medium is placed between two charges	A. Increases B. Decreases C. Remain unchanged D. None of these
2	Referring to above figure, due to change in current in the coil P, the change in magnetic flux:	A. Is associated with coil P B. Is associated with coil S C. Causes an induced current in coil S D. All of these E. None of these
3	Stoke;s law is not applicable when the speed of the object moving through a fluid is:	A. Zero B. Small C. Large D. None of these
4	In all natural processes where heat flows from one system to another, there is always a net	A. decrease in entropy B. increase in entropy C. decrease or increase in entropy D. none of them
5	The terms phase difference and path difference are	A. Same B. Different C. Equal D. none of these
6	The example of irreversible process is	A. slowly liquification B. slowly evaporation C. an explosion D. all of them
7	The direction of lines of force depends upon the direction of	A. voltage B. current C. charges D. none of these
8	In a transistor, collector current is controlled by	A. Collector voltage B. Base current C. Collector resistance D. All of the above
9	10^6 electrons are moving through a wire per second, the current developed is	A. 1.6×10^{-19} B. 1 A C. 1.6×10^{-15} D. 10^6 A
10	The direction of velocity is along the direction of	A. distance B. displacement C. acceleration D. all of them
11	The velocity of a projectile is maximum	A. at the point of projection B. just before striking the ground C. at none of them D. at both of them
12	As the current flow through the wire:	A. Resistance of the wire decreases B. It produces sound in the wire C. Resistance of the wire decreases D. Resistance of the wire decreases

align:justify >Voltage across the ends is increased<o:p></o:p></p>

- A. Pico
- B. Femto
- C. Nano
- D. Atto

13 Which one of the least multiple:

- A. equation of continuity
- B. Bernoulli's theorem
- C. both of them
- D. none of them

14 The law of conservation of energy gives us

- A. same half lives
- B. different half lives
- C. same mean lives
- D. same total lives

15 Different radioactive material have

- A. Hydrodynamics
- B. Thermodynamics
- C. Both of them
- D. Statics

16 Aerodynamics is a branch of:

- A. Sub-atomic particles
- B. Stars and galaxies
- C. Light and sound
- D. Music

17 Astrophysics is a branch of physics, which deals with:

- A. $Z e^{2}$
- B. $Z^{2} e$
- C. Z/e
- D. $Z e$

18 The total charge of any nucleus is given as

- A. a plucked violin string
- B. a mass attached to a spring
- C. a train shunting between two terminals
- D. a simple pendulum

19 Which of the following does not exhibit S.H.M?

- A. Same
- B. 2 times
- C. 4 times
- D. 8 times

20 In the production of beats by 2 waves of same amplitude and nearly same frequency, the maximum intensity to each of the constituent waves is