

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	If the two charges in Coulomb's law have double distance between them, then electric force	A. Becomes two-fold B. Becomes four-fold C. Remains the same D. None of these
2	When a nucleus emits an alpha particle, its atomic mass decreased by	A. 2 B. 1 C. 4 D. 3
3	Mass of neutron is	A. 1.67×10^{-31} kg B. 1.67×10^{-27} kg C. 9.1×10^{-31} kg D. 1.67×10^{-19} kg
4	When a body moves to and fro motion, this type of motion is called	A. translatory motion B. circular motion C. oscillatory motion D. all of them
5	In a voltmeter the conduction takes place due to	A. Electrons only B. Holes only C. Electrons and holes D. Electrons and ions
6	The volume of a gas will be double of what it is at 0°C (pressure remaining constant) at	A. 546 K B. 273 K C. 546 D. 273
7	A body with frequency f would complete one vibration in:	A. f seconds B. $1/f$ seconds C. 1 second D. $f^{2/3}$ seconds
8	Semi-conductor elements have atoms with	A. 2 valence electrons B. 3 valence electrons C. 4 valence electrons D. 5 valence electrons
9	A typical rocket consists of fuel	A. more than 60% of launch mass B. less than 60% of launch mass C. less than 80% of launch mass D. more than 80% of launch mass
10	γ -rays are	A. electrostatic waves B. electromagnetic waves C. heavy particles D. longitudinal waves
11	Which of the following is/are example/s of mechanical waves i.e. waves generated in _____:	A. Rope B. Coil of spring C. Water D. All of them
12	Which of these is not a radiation detector	A. Wilson cloud chamber B. cyclotron acceleration C. Geiger Miller counter D. solid state detector
13	A magnifier gives an image which is:	A. Virtual, inverted B. Real, erect C. Virtual, erect D. Real, inverted
14	Cosine of an angle is positive in:	A. 2nd quadrant B. 3rd quadrant C. 4th quadrant D. All of these

15 Distance to nearest galaxy from earth is
A. 10^{10} m
B. 10^{15} m
C. 10^{40} m
D. 10^{30} m

16 In 1932 Chadwick discovered
A. proton
B. neutron
C. photon
D. electron

17 Acceleration produced in a body by a force varies
A. inversely as the applied force
B. directly as the applied force
C. directly as the mass of the body
D. none of them

18 When a positron comes close to an electron they annihilate into
A. one photon
B. two photons which travel in the same direction
C. two photons which travel in the opposite direction
D. two photons which travel in any direction

19 At high altitude the blood oozes out of the nose and ear because
A. The blood pressure increase at high altitudes
B. The percentage of oxygen in the air increase
C. The atmospheric pressure decrease there
D. The density of blood decrease at high altitudes

20 Which of the following is a characteristic of an ideal fluid?
A. it is non-viscous
B. it is incompressible
C. its motion is steady
D. all of the above