

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	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
2	The valence band of an atom in a solid	A. is always empty B. may or may not be empty C. can never be empty D. none of them
3	Essential characteristic of equilibrium is	A. Momentum equal to zero B. Acceleration equal to zero C. Kinetic energy equal to zero D. Velocity equal to zero
4	The value of current at resonance in series LCR circuit is affected by the value	A. R only B. C only C. L only D. R, C and L
5	In a resonance situation the amplitude of the motion may become extra ordinarily large, if	A. the driving force is large B. the driving force is zero C. the driving force may be feeble D. all of them
6	The center of mass of a sphere lies at:	A. The axis of the sphere B. Circumference of sphere C. Center of the sphere D. None of them
7	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
8	In an ideal gas, the molecules have:	A. Kinetic energy only B. Potential energy only C. Both KE and PE D. None of these
9	Consider two spheres A and B or radii ra and rb both concentric with point charge Q, If ra>rb then the total flux passing normally through the sphere A and B is related as	A. Flux through A is greater B. Flux through both sphere is equal C. Flux through a may be greater or less than Q depending on radius D. Flux through spohere B is greater
10	When some compass needles are placed on a card board along a circle with the center at the wire, they will	A. Point the direction of N-S<o:p></o:p> B. Set themselves tangential to the circle<o:p></o:p> C. Point in the direction of E-W<o:p></o:p> D. None of these<o:p></o:p> E. Point in direction of S-E

.

11	Current is measured in	A. voits B. watt C. ohm D. ampere
12	Which force is not a conservative force?	A. Frictional force B. Gravitational force C. Electric force D. Elastic spring force
13	Which of the following has the greatest coefficient of viscosity?	A. water B. gasoline C. honey D. tar
14	Which of the following diodes can operate in the reverse biased condition	A. photo diode B. light emitting diode C. photo voltaic cell D. none of these
15	The energy stored in a charge capacitor	A. 1/2CV ² B. 1/2C ² V C. 1/2C/V ² D. None of these
16	The electric field lines start from	A. Positive charge B. Negative charge C. Either A or B D. Neutron E. An atom
17	Specific heat at constant pressure is greater than the specific heat at constant volume because	A. Heat is used up to increase temperature at constant pressure B. Heat is used by gas for expansions purposes at constant pressure C. Heat is use dup to increase internal energy D. The above statement is invalid
18	X-ray are also known as	A. Roentgen rays B. Maxwell rays C. Plank range D. Einstein rays
19	Bodies which falls freely under gravity provides good example of motion under:	A. Uniform acceleration B. Non-uniform acceleration C. Uniform velocity D. None of these
20	From sand, we get a material used for construction with the motion of bodies under the action of forces is called:	A. Optics B. Mechanics C. Thermodynamics D. Astrophysics