

Physics ECAT Pre Engineering MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Which one of the following is an example of resonance	A. swing B. tuning a radio C. microwave oven D. all of them
2	When a transistor is used as a switch the circuit in which the current is to be switched OFF and ON, is connected between the	A. base and emitter B. collector and emitter C. base and collector D. any one of these
3	Substances that do not flow easily have	A. large coefficient of viscosity B. small coefficient of viscosity C. either of them D. none of them
4	When the p-n junction is forward biased its resistance is of the order of	A. few mega ohms B. few kilo ohms C. few ohms D. few milli ohms
5	In a container having water filled up to a height h, a hole is made in the bottom. The velocity of water flowing out of the hole is	A. Independent of h B. Proportional to h ^{1/2} C. Proportional to h D. Proportional to h ²
6	Which of the following changes at an antinode in a stationary wave?	A. Density only B. Pressure only C. Both pressure and density D. Neither pressure nor density
7	A transistor has:	A. One region B. Two regions C. Three regions D. Four regions E. None is correct
8	Field lines are closer to each other in the region where the field is:	A. Stronger<o:p></o:p> B. Weaker<o:p></o:p> C. Much weaker<o:p></o:p> D. Absent<o:p></o:p> E. Absent<o:p></o:p> E. None of these<o:p></o:p>
9	When each particle of the fluid moves along a smoth path, this path is known as	A. straight path B. smooth path C. haphazard path D. steamline
10	An object is dropped from a height of 100 m. Its velocity at the moment it touches the ground is:	A. 100 m/sec B. 140 m/sec C. 1960 m/sec D. 196 m/sec
11	Which are not the elementary particles?	A. Photons B. Leptons C. Hadrons D. Quarks E. None of these
12	The angular speed of a particle moving along a circular path is 5 Pie rad sec	A. 2.5 sec B. 0.06 sec

	¹ , Its period of motion is:	C. 15./ sec D. 0.4 sec
13	Inverter is the name given to:	A. NOT gate B. OR gate C. NOR gate D. AND gate E. XOR gate
14	Carnot heat engine only used	A. isothermal processes B. adiabatic processes C. both of them D. none of them
15	The ohm's is defined as	A. 1 ampere / 1 volts B. 1 coulomb / 1 volt C. 1 volt / 1 ampere D. 1 volt / 1 coulomb
16	The range of projectile is 50 m when θ is inclined with horizontal at 15°. What is the range when θ becomes 45°?	A. 400 m B. 300 m C. 200 m D. 100 m
17	Velocity of sound in vacuum (in m/s) is	A. 330 B. 1000 C. 156 D. 0
18	The R_1 = infinity and R_2 = 0, then the gain of non-inverting amplifier is	A. zero B. infinity C. one D. any one of these
19	Two dissimilar metals joined at their ends kept at constant temperature constitute:	A. Cell<0:p> B. Voltmeter<0:p> C. Thermocouple b><o:p></o:p> D. Thermocouple<o:p></o:p> D. Potentiometer<o:p< p=""> :p></o:p<> E. None of these
20	Addition of 2.189 kg, 11.8 kg and 5.32 kg gives the rounded off answer as:	A. 19.398 B. 19.400 C. 19.4 D. 19.3