

## ECAT Physics Online Test

Sr	Questions	Answers Choice
1	When a shell explodes in mid-air, its fragments fly off in	A. only one direction B. in two direction C. different directions D. a particular direction
2	In transverse waves, the individual particles of the medium move:	A. In circles B. Perpendicular to the direction of level C. Parallel to the direction of level D. None of these
3	The SI unit of magnetic induction is	A. Weber B. Weber/meter C. Henry D. Tesla
4	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
5	The materials in which there are plenty of free electrons for electrical conduction are known as	A. conductors B. insulators C. semi-conductors D. all of them
6	Curie is a unit of	A. reluctance B. resistivity C. binding energy D. radioactivity
7	A thermistor is a resistor which is:	A. Light Sensitive B. Heat Sensitive C. Sound Sensitive D. All of these E. None of these
8	In a normal healthy person the value of diastolic pressure is	A. 75 - 80 torr B. 100 torr C. 120 torr D. none of them
9	The waves which propagate through the oscillations of material particles are known as:	A. Mechanical waves B. Electromagnetic waves C. Any of them D. None of them
10	In case of a parallel plate capacitor if the plate separation is doubled and plate area is halved, the capacitance becomes	A. Four-fold B. One-half C. One-fourth D. Zero
11	A body starting from rest covers a distance of 0.45 Km and acquires a velocity of 300 Km <sup>h</sup> <sup>-1</sup> . its acceleration will be	A. 7.71 m s <sup>-2</sup> B. 0.5m s <sup>-2</sup> C. 0.15m s <sup>-2</sup> D. 0.092m s <sup>-2</sup>
12	The current sensitivity of the galvanometer is	A. C/BAN B. BAN/C C. CAN/B D. CBNA
13	The equation of continuity $A_1V_1 = A_2V_2$ is for the flow of	A. an ideal fluid B. an incompressible fluid C. a non visconcouc fluid D. all of the above
14	At the constant temperature, if the value of a given mass of a gas is double, then the density of gas becomes:	A. Double B. Remains constant C. Half D. None of these
15	A square loop of wire is moving through a uniform magnetic field. The normal to the loop is oriented parallel to the magnetic field. The emf induced in the loop is:	A. Zero B. Of smaller magnitude C. Of larger magnitude

oriented parallel to the magnetic field. The emf induced in the loop is:

- D. Sometimes B, sometimes C
- E. Neither of these

16

When a body is pulled away from its rest or equilibrium position and then released, the body oscillates due to

- A. applied force
- B. momentum
- C. restoring force
- D. none of them

17

If the flow is incompressible and the flow is steady then the mass of the fluid through the pipe

- A. increases
- B. decreases
- C. becomes zero
- D. is conserved

18

In order to produce pair production, a photon must have a energy

- A. 0.511 Me v
- B. 0.256 Me v
- C. 1.02 Me v
- D. 0.956 Me v

19

For a given angle of projection, if the time of flight of a projectile is doubled, the horizontal range will increase to

- A. Four times
- B. Thrice
- C. Once
- D. Twice

20

For Protium, the mass defect is:

- A. Infinite
- B. Zero
- C. Very large
- D. A few grams
- E. None of these