

ECAT Physics Online Test

| Sr | Questions | Answers Choice |
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| 1 | Velocity of sound in a diatomic as is 300 m/sec. what is its rms velocity? | A. 400 m/sec B. 40 m/sec C. 430 m/sec D. 300 m/sec |
| 2 | Recent studies of ferromagnetism have shown that there exists in ferromagnetic substances small regions called | A. tiny regions B. domains C. vectors D. none of them |
| 3 | SI unit of wave length is: | A. Kilometer B. Metre C. Centimetre D. Hertz |
| 4 | When a platinum wire is heated, it appears dull red at about | A. 500°C B. 900°C C. 1100°C D. 1300°C |
| 5 | The vector representation of force experience give the direction of | A. magnetic field B. current C. length of conductor D. force |
| 6 | An electron of charge e coulomb passes through a potential difference of V volts its energy in joules will be | A. V/e B. eV C. e/V D. V |
| 7 | A coil of constant area is placed in a constant magnetic field. An induced current is produced in the coil when: | A. The coil is distorted B. The coil is rotated C. The coil is neither distorted nor rotated D. Both A and B E. None of these |
| 8 | For a body executing S. H. M, its | A. momentum remains constant B. potential energy remains constant C. kinetic energy remains constant D. total energy remains constant |
| 9 | Hold the solenoid in the right hand with fingers curling in the direction of current. The direction of the field will be given by: | A. Thumb<o:p>p></o:p> B. Curled fingers<o:p></o:p> C. Middle finger<o:p></o:p> D. Arm oright hand<o:p>p></o:p> E. Roman" " Serif" ">None of these<o:p>p>p></o:p> |
| | In a reconnect city at ion the amplitude of the motion may become outre 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 |
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| 11 | In AND gate, the output is 1 if: | A. Both inputs are 0 B. Both inputs are 1 C. Only one input is 0 D. Both (A) and (B) E. Both (A) and (C) |
| 12 | The basis to define a temperature scale that is independent of material properties is provided by | A. carbon cycle B. nitrogen cycle C. Carnot cycle D. irreversible cycle |
| 13 | The pattern of crystalline solid is: | A. One dimesional B. Two dimensional C. Three dimensional D. None of these E. Either (A) or (B) |
| 14 | Under the elastic region, the deformation produced in the material, the deformation produced in the material will be | A. permanent B. temporary C. either of them D. none of them |
| 15 | The electric lines of force are | A. Imaginary B. Physically existing everywhere C. Physically existing near the charge D. All of the above |
| 16 | Decibel is unit of | A. Intensity of light B. x-ray radiation capacity C. sound loudness D. Energy of radiation |
| 17 | The whole shape of the black body spectrum for all wavelengths was explained by the formula proposed by | A. Max plank B. Newton C. Einstein D. J.J. Thomson |
| 18 | If a 40 watt light bulb burns for 2 hours. how much heat is generated | A. 288 x 10 ³ J B. 288 x 10 ⁸ J C. 288 x 10 ⁵ J D. 288 x 10 ⁵ J |
| 19 | A voltmeter is used to measure the | A. potential difference B. current C. temperature D. resistance |
| 20 | The quantity having the same unit as that of emf is: | A. Force B. Energy C. Potential D. Current E. Charge |
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