

Physics ECAT Pre Engineering MCQ's Test For Full Book

| Sr | Questions | Answers Choice |
|-----|---|---|
| 1 | An ideal voltmeter has: | A. Zero resistance B. Small resistance C. Large resistance D. Infinite resistance E. Both A and B |
| 2 | A diode which can turn its current ON and OFF in nono seconds is called: | A. LED B. Photodiode C. An ordinary diode. D. Both (A) and (B) E. Both (B) and (C) |
| 3 | The threshold frequency of sodium is 6 x 10^6MHz . The cut-off wavelength for this metal will be | A. 500 m B. 500 nm C. 500 km D. 500 cm E. None of these |
| 4 | The special theory of relatively treats the problems involving: | A. Inertial frames of reference B. Non-inertial frames C. Non-accelerated frame D. Botha (A) and (C) E. Both (B) and (C) |
| 5 | The minimum wavelength of X-rays produced of 1KV potential difference is applied across the anode and cathode of the tube is | A. 1.24 x 10 ⁻¹⁰ m B. 7.92 x 10 ⁻²⁰ m C. 2.78 x 10 ⁻¹⁴ m D. 3.88 x 10 ⁻¹¹ m |
| 6 | With age, least distance of distinct vision: | A. Increases B. Decreases C. Is not affected D. None is correct |
| 7 | Referring to above figure, a changing current in coil P can be produced: | A. At the instant the switch is closed B. At the instant the switch is opened C. With the help of rheostat D. All of these E. None of these |
| 8 | According to Huygen's principle | A. light travels in straight line B. Light is a transvers wave C. Light has dual nature D. All points on the primary wave-front are the sources of secondary wavelets |
| 9 | Parallel vectors of same magnitudes: | A. Are equal B. Are unequal C. When added give the some equal to zero D. Give the answer equal to zero |
| 10 | A magnetic force on an electron travelling with 10^8ms^{-1} parallel to a field of strength 1 Wb m ⁻² is | A. Zero B. 10 ⁵ m C. 10 ⁻¹⁰ N D. 10 ⁸ N |
| 11 | Energy is stored in the choke coil in the form of | A. Heat B. Magnetic energy C. Electric energy D. Electro-magnetic energy |
| 12 | The force experienced by a single charge carrier moving with velocity 'v' i magnetic field of strength 'B' is given by | A. F =q(v/B) B. F=q ² (v x B) C. F=q(v x B) D. F= vx B |
| 13 | Compton studied the scattering of x-rays by loosely bound electrons from: | A. NaCl crystal B. Graphite crystal C. Zirconia D. Copper crystal E. None of these |
| 4.4 | The transitions of electrons in the hydrogen atom result in the emission of spectral | A. Ultra red region B. Visible region |

| 14 | lies in the: | C. Ultraviolet region D. Any of these E. None of these |
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| 15 | Two sound waves of slightly different frequencies propagating in the same direction produce beats due to | A. Interference B. Diffraction C. Polarization D. Refraction |
| 16 | The sum of the magnitude of two forces acting at a point is 18 and the magnitude of their resultant is 12. If the resultant is at 90° with the force of the smaller magnitude, then their magnitudes are | A. 3, 15 B. 4, 14 C. 5, 13 D. 6, 12 |
| 17 | In case of streamed lined flow of liquid, the loss of energy is | A. Maximum B. Minimum C. Infinite D. equal to what is in turbulent flow |
| 18 | Shock absorber of the car is an example of | A. resonance B. forced oscillations C. interference D. damped oscillations |
| 19 | if the field is directed along the normal to the area, then flux is: | A. Maximum<o:p <="" o:p=""></o:p> B. Equal to zero<o:p></o:p> C. Equal to BA<o:p></o:p> D. Minimum<o:p></o:p> E. Minimum<o:p></o:p> E. Both (A) and (C)<o:p></o:p> |
| 20 | Energy is not carried by | A. Transverse progressive waves B. Longitudinal vibration C. Stationary waves D. Electromagnetic |