

Physics FSC Part 2 Chapter 19 Online MCQ's Test

| Sr | Questions | Answers Choice |
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| 1 | Energy of Black body radiation depends upon | A. Nature of surface of body B. Nature of material of body C. Shape and size of body D. Temperature of the body |
| 2 | Albert Einstein got noble prize in: | A. 1926 B. 1921 C. 1918 D. 1931 |
| 3 | When platinum is it becomes orange at. | A. 500 ^o C B. 900 ^o C C. 1100^oC D. 1300 ^o C |
| 4 | Which one of the following paved the way for modern physics | A. Newtonian mechanics B. Theory of relativity C. Quantum theory D. All of above |
| 5 | Compton's effect is associated with | A. gamma rays B. Beta rays C. X rays D. Positive rays |
| 6 | Platinum wire becomes yellow at a temperature of. | A. 900 ^o C B. 1300^oC C. 1600 ^o C D. 500 ^o C |
| 7 | The minimum energy required for occurrence of pair production is: | A. 1.022eV B. 1.02keV C. 1.02Me.V D. 1.04MeV |
| 8 | 1 kg mass will be equivalent to energy. | A. 9×10^8 J B. 9×10^{12} J C. 9×10^{16} J D. 9×10^{19} J |
| 9 | In Compton scattering, the value of shift is equal to Compton's wavelength, when X-rays is scattered at the angle of. | A. 90^oC B. Zero C. 120 ^o C D. 45 ^o C |
| 10 | The stopping potential for a certain metal is 10 volts. Thus work function for the cathode is. | A. 10 J B. 1.6×10^{-18} J C. 1.6×10^{-19} J D. 1.6×10^{30} J |
| 11 | By modern system of NAVSTAR, the speed any where on the earth can be determined to accuracy about. | A. 20 ms ⁻¹ B. 10 ms ⁻¹ C. 2 cms⁻¹ D. 2 ms ⁻¹ |
| 12 | Light of 4.5 eV is incident on a Cesium surface and stopping potential is 0.25 eV, maximum K.E. of emitted electron is. | A. 4.5 eV B. 4.25 eV C. 4.75 eV D. 0.25 eV |
| 13 | Joule second is the unit of. | A. Energy B. Wein's constant C. Planck's constant D. Boyle's law |
| 14 | Application of wave like nature of particle is | A. Photodiode B. Optical microscope C. Electron microscope D. Compound microscope |
| 15 | Pair production cannnto take place in vacuum because : | A. Mass in not conserved B. Momentum is not conserved C. Energy is not conserved D. Charge is not conserved |

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| 16 | The most refined form of matter is: | A. Smoke B. Light C. Ice D. Fog |
| 17 | An electron microscope employs which to one of the following particles? | A. Electron have a wave nature B. Electrons can be focused by an electric field C. Electrons can be focused by a magnetic field D. All of the above |
| 18 | In Compton effect the photon behaves as a. | A. Wave B. Particle C. Nucleon D. Both a and b |
| 19 | The number of electrons emitted depends upon | A. Colour of target surface B. Shape of surface C. Frequency of incident light D. Intensity of incident light |
| 20 | The emission of electrons from metal surface when exposed to light is called: | A. Compton effect B. Pair production C. Photoelectric effect D. None of above |
