

Physics FSC Part 2 Chapter 19 Online MCQ's Test

Sr	Questions	Answers Choice
1	Pair production occurs only when energy of photon is at least equal in:	A. 1.02keV B. 1.02 eV C. 1.02 MeV D. 1.02 GeV
2	A perfect absorber must also be perfect	A. Cavity B. Sources of radiation C. Radiator D. None of these
3	De-Broglie waves are associated with	A. Moving charged particles only B. Moving neutral particles only C. All moving particles D. All particles whether in motion or at rest
4	Einstein's Photoelectric equation is $E_k = hf - \phi$ in this equation E_1 , refers to:	A. K.E of all the emitted electrons B. Mean K.E of emitted electrons C. Maximum K.E of emitted electrons D. Minimum K.E of emitted electrons
5	If the kinetic energy of a free electron doubles, its de Broglie wavelength changes by the factor.	A. $\sqrt{2}$ B. 1/2 C. 2 D. 1/2
6	Wave nature of particle was given by:	A. Clemensen B. Louis de Broglie C. Laster H. Germer D. Clinton S. Davisson
7	The most refined form of matter is:	A. Smoke B. Light C. Ice D. Fog
8	The existence of positron was discovered in:	A. 1929 B. 1928 C. 1931 D. 1933
9	The converse of annihilation of matter is:	A. Photoelectric effect B. Relativistic effect C. Pair production D. Compton effect
10	The minimum energy required for occurrence of pair production is:	A. 1.022eV B. 1.02keV C. 1.02MeV D. 1.04MeV
11	When a very high energy modeules such as γ radiation interact with matter, the phenomenon arising will be.	A. Photoelectric effect B. Compton effect C. Pair production D. Annihilation of matter
12	Albert Einstein got noble prize in:	A. 1926 B. 1921 C. 1918 D. 1931
13	Albert Einstein got noble prize for service in:	A. Pair production B. Annihilation of matter theory C. Compton effect D. Photoelectric effect

- 14 Minimum energy needed to escape an electron from metal surface is called:
A. Threshold energy
B. Threshold frequency
C. Work function
D. Work ability
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- 15 The minimum frequency needed to emit an electron from metal surface is called:
A. Work function
B. Threshold frequency
C. Quanta frequency
D. All of above
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- 16 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
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- 17 The unit for Plank's constant is:
A. Js⁻¹
B. Jm
C. Js
D. Jm²