

PPSC Physics Topic 7 Modern Physics

Sr	Questions	Answers Choice
1	Which of the following is deflected by an electric field.	A. Alpha particles B. X rays C. Gama rays D. Neutrons
2	The mass of an helium nucleus is equal to.	A. 2.0015 u B. 3.0015 u C. 4.0015 u D. 5.0015 u
3	Why FET amplifiers are called voltage controlled devices.	A. Input is a current signal B. Output is a current signal C. Input is a voltage signal D. Output is a voltage signal
4	In electromagnetic spectrum X-rays are next to.	A. Water waves B. Radio waves C. ultraviolet waves D. Infrared waves
5	The decay to form other nuclides by emitting particles and electromagnetic radiations by unstable nuclides is called.	A. Nuclear stability B. Radioactivity C. Carbon dating D. Spontaneously
6	The particles less in mass than protons are	A. Measons B. Bosons C. Baryons D. Nucleons
7	Sub atomic particles which experience strong nuclear force are.	A. Leptons B. Hadrons C. Mesons D. Quarks
8	The decimal equivalent of 1111 is	A. 5 B. 10 C. 15 D. 120
9	The working of cloud chamber is based in the presence of.	A. Super heated vapours B. Liquid C. Super saturated vapors D. Unsaturated vapours
10	An important property of an ideal power supply is.	A. Infinite internal resistance B. Zero internal resistance C. Large output resistance D. Small output resistance
11	The constant lamda is called the.	A. Decay constant B. Gas constant C. Planck's constant D. Dose constant
12	The output of two input OR gate is zero only when its.	A. Either input is one B. Either input is zero C. Both inputs are zero D. Both inputs are one
13	Which of the following wavelength lies in X-rays region.	A. 1 A B. 100 A C. 1,000 A D. 10,000 A
14	X-rays are	A. Longitudinal wave B. Transvers waves C. Secondary waves D. Fast sound waves
15	An Alpha particle is the same as	A. A helium nucleus B. A high speed electron C. A hydrogen nucleus D. Electromagnetic radiation of short

wavelength

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| 16 | Which of the following is not an electromagnetic wave. | A. gamma rays
B. Ultraviolet rays
C. Ultrasonic waves
D. Microwaves |
| 17 | The converse of pair production is | A. Annihilation of matter
B. Materialization
C. Compton effect
D. Photo electric effect |
| 18 | In an electronic transition atom cannot emit | A. Gama rays
B. Visible rays
C. Infrared rays
D. Ultraviolet rays |
| 19 | Which of the following are electromagnetic waves. | A. Alpha particles
B. Beta particles
C. Gama rays
D. Water waves |
| 20 | Which of the following has the highest relative biological effectiveness or the quality factor. | A. X rays and Gama rays
B. Electrons
C. Photons
D. Alpha particles |