

## PPSC Physics Topic 7 Modern Physics

Sr	Questions	Answers Choice
1	X-rays are	A. Longitudinal wave B. Transvers waves C. Secondary waves D. Fast sound waves
2	The energy of neutrons obtained during a fission reaction is.	A. 0.1 MeV B. 1 KeV C. 1 MeV D. Zero
3	According to Max. Planck, energy is released or absorbed in discrete packets called.	A. quanta B. Meson C. Energy shells D. Position
4	The relationship between mass number atomic number and neutron number is.	A. $A = Z + N$ B. $A = Z - N$ C. $Z = A + N$ D. $N = Z - A$
5	Photocells are used for	A. Security systems B. Counting systems C. Automatic door system D. All of the above
6	The number of electrons in U nucleus are.	A. 92 B. 235 C. zero D. 143
7	Which of the following is not a mode of radioactive decay	A. Nuclear fusion B. Alpha decay C. Electron capture D. Positron emission
8	Marie Curie and Pierre Curie discovered two new radioactive elements which are.	A. Uranium and radkum B. Platinum and radium C. Polonium and radium D. Crypton and radon
9	The necessary condition for nuclear fusion is.	A. High temperature and high pressure. B. Low temperature and high pressure C. Low temperature and low pressure D. High temperature and low pressure.
10	In the experiment of photo electric effect the minimum frequency of photons at which electrons are emitted from a metal surface is called.	A. Critical frequency B. Typical frequency C. Threshold frequency D. Surface frequency
11	X-rays are absorbed maximum by	A. Paper B. Copper C. Steel D. Lead
12	Which one of the following spectra series is in the ultraviolet region.	A. Lyman series B. Paschen series C. Brackett series D. Plund series
13	What is the energy equivalent to amu in Me V	A. 0.931 MeV B. 9.31 MeV C. 93.1 MeV D. 931 MeV
14	The energy in an electromagnetic wave is carried in the units called.	A. Protons B. Electrons C. Neutrons D. Nucleus

15	Sub atomic particles which experience strong nuclear force are.	A. Leptons B. Hadrons C. Mesons D. Quarks
16	In de Broglie model electron orbit must form	A. Spectrum B. Wave packets C. Franhofer lines D. Clouds
17	A darling ion amplifier is characterized by	A. High voltage and current gain B. High input resistance and current gain C. High output resistant and current gain D. Low input resistance and current gain
18	A transistor consists of.	A. One p-n junction B. Two p-n junctions C. Three p-n junctions D. Four p-n junction
19	The emission of electrons from a metal surface when exposed to light of suitable frequency is called.	A. Pair production B. Compton effect C. Photo electric effect D. Zeeman effect
20	The Beta particles move along.	A. Straight path B. Curved path C. Zig Zag path D. Circular path