

PPSC Physics Topic 7 Modern Physics

Sr	Questions	Answers Choice
1	Critical mass is the minimum mass needed for	A. Fusion B. H-Bomb C. Chain reaction D. Binding energy
2	The working of cloud chamber is based in the presence of.	A. Super heated vapours B. Liquid C. Super saturated vapors D. Unsaturated vapours
3	The input exultation for a JFET is	A. Current signal B. Voltage signal C. Voltage and current signals D. Neither voltage nor current signal
4	The mass defect of Bohr's atomic model is	A. Exclusion of nuclear motion B. missing of classical and quantum theories C. Failed to explain the fine structure of spectral line D. All of the above
5	Radioactive substances do not emit	A. Alpha particles B. Beta particles C. Gama rays D. Neutrons
6	Alpha particles emitted from a radioactive material are.	A. He nucliei B. H -nucliei C. Li nucliei D. B nucliei
7	Choose the one which acts as single inverter.	A. Common emitter B. common collector C. Common base D. Diode
8	If an object moves with velocity of light the apparent length of the object moving the direction of motion becomes.	A. Larger B. Smaller C. Zero D. Infinity
9	Which experiment is a demonstration that matter and energy can display properties of both waves and particles.	A. young's double slit experiment B. Division germier experiment C. Heisenberg's uncertainty experiment D. Stern Gerlach experiment
10	The maximum energy of emitted photoelectron is measured by	A. the largest potential difference they can traverse B. The current they produce C. The potential difference they produce D. The speed with they emerge
11	What do we study by crystallography.	A. The analysis of X ray spectra of elements and study of crystal structure. B. Visible spectra of sources and crystal study C. Ultraviolet spectra of sources and crystal study D. Characteristics of X-rays
12	Work function is generally expressed in.	A. Electron volt B. Joules C. Newtons D. Gauss
13	When a platinum wire is heated of 1600 °C, it becomes	A. orange B. Cherry red C. Dull red D. White
		A. Zero biased

14	For the normal operation of transistor the emitter base junction is always.	B. Reverse biased C. Forward biased D. Both a and b
15	In heavy atoms the electrons are assumed to be arranged in.	A. Elliptical shells B. Inner shells C. Concentric shells D. Outer shells
16	Which of the following wavelength lies in X-rays region.	A. 1 Å B. 100 Å C. 1,000 Å D. 10,000 Å
17	In potential for the material of cathode pure metals are rarely used because of their	A. Low reflecting power B. High reflecting power C. Low resolving power D. High resolving power
18	In a Geiger Marsden experiment why do the great majority of the Alpha particles pass straight through the metal foil.	A. Atomic nuclei may contain neutrons B. Atoms are electrically neutral C. Atoms are largely empty space D. Atoms have positively charged nuclei
19	An AND gate is.	A. Equivalent to a series switching circuit. B. Equivalent to a parallel switching circuit C. Equivalent of universal gate D. A reciprocal of NAND gate
20	The existence of more than one distinct state with the same energy is called.	A. Exigency B. Degeneracy C. Normally D. Emergency