

PPSC Physics Topic 7 Modern Physics

Sr	Questions	Answers Choice
1	Special theory of relativity deals with the events in the frames of reference which move with constant.	A. Time interval B. Acceleration C. Momentum D. space interval
2	One radian is equal to.	A. 0.1 Gy B. 0.01 Gy C. 0.001 Gy D. 0.0001 gy
3	An example of continuous spectrum is.	A. Black body radiation spectrum B. Molecular spectra C. Atomic spectra D. All of the above
4	The process of pair production will take place if the energy of photon is greater than	A. 0.21 MeV B. 0.51 MeV C. 1.51 MeV D. 1.21 MeV
5	X-rays are absorbed maximum by	A. Paper B. Copper C. Steel D. Lead
6	X-rays spectrum may be	A. Continuous spectrum B. Discontinuous spectrum C. Line spectrum D. Continuous and line spectrum
7	Isotopes are the atoms of the same elements which contain equal number of.	A. Nucleus B. Neutrons C. Protons D. Electrons
8	Choose the one which acts as single inverter.	A. Common emitter B. common collector C. Common base D. Diode
9	If an object moves with velocity of light the apparent mass of the object as compared to list original mass is	A. greater B. Smaller C. Same D. zero
10	The energy delivered to the tissue per unit mass is called the absorbed dose of.	A. X rays B. gama rays C. Radiation D. energy
11	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
12	What is the overall gain, if three amplifiers each with a gain of 30 are cacaded.	A. 30 B. 90 C. 270 D. 27,000
13	When an object moves with a very high speed the length in the direction of motion.	A. Contracts B. Expands C. Remains the same D. Becomes infinity
14	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
15	X-rays are good for imagining	A. Tendons B. Brain C. Bones D. Heart

16	The simple form of particle accelerator is.	A. Cathode ray tube B. Oscillator C. _{Amplifier} D. Phase locked loop
17	The phenomenon of radioactivity is associated with	A. Decay of nucleus B. Decay of atoms C. Fusion of nuclei D. Emission of electrons
18	If the base emitter junction is forward biased and base collector junction is reverse biased the BJT is in.	A. cut of mode B. Amplification mode C. Saturation mode D. Inversion mode
19	Which of the following causes the deflection of Alpha particles when they re passed through a thin foil.	A. Attraction of nucleus B. Collision with nuclei C. Interactions with electrons D. Electrostatic repulsion by the nucleus
20	A transistor consists of.	A. One p-n junction B. Two p-n junctions C. Three p-n junctions D. Four p-n junction