

PPSC Physics Topic 7 Modern Physics

Sr	Questions	Answers Choice
1	The process by which nuclei emit α , β and gamma rays in order to attain stability is called.	A. Radioactive disintegration B. Radio activity C. B decay D. Radioactive transmulation
2	The SI unit of absorbed dose in.	A. Bel B. Weber C. Rem D. Grey
3	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
4	Which of the following is not a mode of radioactive decay.	A. Positron emission B. Electron capture C. Fusion reaction D. A decay
5	The splitting of atomic energy levels and the associated spectrum lines when the atoms are placed in a magnetic field is called.	A. The photoelectric effect B. The zeeman effect C. The Compton effect D. Quantum effect
6	Which of the following is formed by decay of a free neutron.	A. A number of electrons B. Two protons C. A proton and an electron D. An alpha particle
7	The SI unit of radioactivity is.	A. Becquerl B. Curie C. Joule D. rutherford
8	X-ray are	A. Streams of negatively charged particles. B. Electromagnetic wave C. Streams of positively charged particles D. Visible light
9	What is the scale for measurement of Banbridge mass spectrograph.	A. Linear B. Inverse C. Exponential D. Logarithmic
10	Which of the following radiations can penetrate 20 cm thick steel.	A. Alpha particles B. Beta particles C. Gama particles D. Neutrons
11	The 'x' in X-rays means	A. Xenon B. Explosion C. x for unknown D. X makes the spot
12	Which is the famous standard model of the universe.	A. the big bang B. Casmos C. Astronaut D. The small stap
13	Lines of Balmer series are emitted by hydrogen atom when the electron jumps from	A. The first orbit to any other orbit B. Higher orbits to second orbit C. Higher orbits to first orbit D. The third orbit to higher orbit
14	The relationship between mass number atomic number and neutron number is.	A. $A = Z + N$ B. $A = Z - N$ C. $Z = A + N$ D. $N = Z - A$
15	The particles less in mass than protons are	A. Measons B. Bosons C. Baryons

		D. Nucleons
16	The half life of a radioactive substance is 6 years What is the time taken by 12 g of this substance to decay completely.	A. 12 years B. 24 years C. 48 years D. infinity
17	When transistor works as an amplifier, its output is.	A. More B. Less C. Zero D. Directly proportional to the input
18	Which of the following phenomenon is observed in obtaining an X ray photograph of our hand.	A. Photoelectric effect B. Zeeman effect C. Shadow photography D. Ionization
19	The unit Planck's constant is equivalent to that of.	A. Energy B. Force C. Velocity D. Angular momentum
20	Radio carbon in the atmosphere is produced by the bombardment of.	A. Oxygen by high energy neutrons B. Oxygen by high energy protons C. Nitrogen by high energy protons D. Nitrogen by high energy neutrons