

PPSC Physics Topic 7 Modern Physics

Sr	Questions	Answers Choice
1	In electromagnetic spectrum X-rays are next to.	A. Water waves B. Radio waves C. ultraviolet waves D. Infrared waves
2	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
3	The two elements with same number of electrons but different mass number are called.	A. Isotones B. Isobars C. Isotopes D. Isomers
4	In a fission reactor which particle causes a uranium -235 nucleus to split.	A. Alpha particle B. Gama ray C. Neutron D. Proton
5	Alpha particles are used for the treatment of skin of a patient due to.	A. Highly ionizing power B. Low penetration power C. Positively charged particles D. Helium nucler
6	The mass of an alpha particle is.	A. 2 u B. 4 u C. 6 u D. 8 u
7	The SI unit of absorbed dose in.	A. Bel B. Weber C. Rem D. Grey
8	The change in wavelength of an X-ray when scattered from an electron is called.	A. Compton shift B. Doppler shift C. Stefan's law D. Fraunhofer lines
9	Sub atomic paticles whihc does not experience strong nuclear force are.	A. hadrons B. Photons C. Leptons D. Nucleons
10	The rest mass of a particle is independent of the	A. Wavelength of the particle B. Mass of the particle C. Speed of the particle D. Energy of the particle
11	Positron are produced during.	A. Annihilation B. ionization C. Pair production D. x rays production
12	Choose the one which acts as single inverter.	A. Common emitter B. common collector C. Common base D. Diode
13	The Inner electrons in heavy atoms can be disturbed and dislodged by.	A. X rays B. Alpha particle C. Beta particles D. gama particles
14	The decay process in which an unstable nucleus splits into two fragments of comparable mass is known as.	A. Nuclear fission B. nuclear fusion C. Radioactivity D. Carbon dating
15	There are how many modes of operations of a BJT.	A. 2 B. 3 C. 4 D. 5

16	Which given element has lowest work function	A. Na B. Al C. si D. C
17	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
18	Which BJT configurations used for signal inversion.	A. CE B. CC C. CB D. BE
19	Which of the following radiations will burn human skin	A. Infrared B. Ultraviolet C. X rays D. Alpha particles
20	The wavelength of Lyman series for hydrogen spectrum lies in the.	A. Visible region B. Ultraviolet region C. Infrared region D. Far infrared region
