

PPSC Physics Topic 7 Modern Physics

Sr	Questions	Answers Choice
1	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
2	Ebers-Moll model describes the working of a	A. BJT B. FET C. MOSFET D. UJT
3	When light of particular frequency is allowed to fall upon a metal surface electrons are emitted from a these emitted electrons are called.	A. Photons B. Holes C. Quants D. Photo electrons
4	Radius of the Bother's orbit is r the radius of second orbit will be.	A. 2 r B. 3 r C. 4 r D. 8 r
5	The value of principal quantum number for an ionized atom is.	A. 13.6 eV B. 27.2 eV C. 54.4 eV D. 100 eV
6	In which of the following studies x-rays are not helpful.	A. Crystal structure B. Crystal surface C. Crystal symmetry D. Crystal atoms
7	Neither the position nor the momentum of a particle can be predicted with arbitrarily great precision is the statement of.	A. Archimede's principle. B. Heisenberg uncertainty principle C. Mosley's law D. Schrodinger's wave equation
8	Which particle is removed by a photon.	A. Quark B. Electron C. Proton D. Neutron
9	Which BJT configurations used for signal inversion.	A. CE B. CC C. CB D. BE
10	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
11	Which of the following wavelength lies in X-rays region.	A. 1 A B. 100 A C. 1,000 A D. 10,000 A
12	An example of continuous spectrum is.	A. Black body radiation spectrum B. Molecular spectra C. Atomic spectra D. All of the above
13	X-rays spectrum may be	A. Continuous spectrum B. Discontinuous spectrum C. Line spectrum D. Continuous and line spectrum
14	In CC configuration voltage gain is.	A. Less than one B. More than one C. One D. Zero
15	In heavy elements of the periodic table the number of neutrons than protons are.	A. Lesser B. Greater C. Equal

		D. Undetermined
16	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
17	A CE amplifier with by passed emitter resistor is an example of.	A. Current series feedback B. Voltage sires feed back C. Current shunt feedback D. Voltage shunt feed back
18	X-rays are not used in RADARs because	A. They are not reflected by the target B. they are not completely absorbed by air C. They damage the target D. They are reflected by the target
19	the gain of an amplifier is independent of	A. The two externally connected resistances B. What is happening inside the amplifier C. Internal structure of the amplifier D. All of the above
20	Critical mass is the minimum mass needed for	A. Fusion B. H-Bomb C. Chain reaction D. Binding energy