

PPSC Physics Topic 7 Modern Physics

Sr	Questions	Answers Choice
1	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
2	Which of the following are particle accelerators.	A. Cyclotrons B. Synchrotrons C. Linear accelerators D. All of the above
3	The advantage of electron tube over a transistor is.	A. Its high efficiency B. Its high gain C. Low consumption of power D. Low input impedance
4	Which one the following is not a component of a Bipolar junction Transistor	A. Base B. Emitter C. Collector D. Grid
5	What is the relativistic version of the Schrodinger equation.	A. Klein Gordon equation B. Laplace equation C. Quadratic equation D. Binomial equation.
6	The critical mass of a fission reaction is.	A. The mass to start a nuclear fission reaction B. The minimum mass for chain reaction C. The size of the reactor core D. The size of fuel plus the size of moderator
7	The simple form of particle accelerator is.	A. Cathode ray tube B. Oscillator C. Amplifier D. Phase locked loop
8	Transistor stands for	A. Transfer of resistance B. Transfer of current C. Transfer of power D. Transfer of voltage
9	In a resistor, when base width decreases with increasing V_{bc} , this phenomenon is called.	A. Tunneling B. Thermal runaway C. Pinch off D. Early effect
10	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
11	The wavelength of X-rays is of the ofder of.	A. 10^{-14} m B. 10^{-10} m C. 10^{-9} m D. 10^{-6} m
12	The part of theory of relativity which deals with accelerated bodies is called.	A. special theory of relativity B. General theory of relativity C. Lorentz's theory of relativity D. Galilean theory of relativity
13	Matter waves	A. Are electromagnetic in nature B. Travel with the speed of light C. Can be diffracted D. Are longitudinal waves
14	The emission of photons by a metal when electrons are incident is called.	A. Photo electric effect B. Pair production C. X-rays production D. Gama ray production
		A. AND gate

15	A logic circuit with one input and one output that inverts the input signal at the output is.	B. NOT gate C. OR gate D. NOR gate
16	Which is the famous standard model of the universe.	A. the big bang B. Cosmos C. Astronaut D. The small step
17	Specially designed solid state detector can be used to detect.	A. Alpha particles B. Beta particles C. Gamma rays D. X-rays
18	The resistance between(+) and (-) inputs of an amplifier is.	A. Zero B. Low C. High D. Infinity
19	Which of the following radiations will burn human skin	A. Infrared B. Ultraviolet C. X rays D. Alpha particles
20	Why is a capacitor resistor combination used in oscillators in grid circuit.	A. To generate oscillation B. To bias the grid automatically C. To amplify oscillations D. To sustain the oscillations.