PPSC Physics Chapter 6 Electricity and Magnetism

Sr	Questions	Answers Choice
1	A gallium atom is.	A. Monvalent B. Diavalent C. Trivalent D. Pentavalent
2	A germanium atom is	A. Monovalent B. Diavalent C. Travalent D. Tetravalent
3	At room temperature the p.d. between the two sides of depletion region for germanium is of the order of.	A. 0.3 V B. 0.5 V C. 0.7 V D. 0.9 V
4	at room temperature the p.d. between the two sides of depletion region for silicon is of the order of.	A. 0.3 V B. 0.5 V C. 0.7 V D. 0.9 V
5	A charge less region which separates p-type and n-type semiconductors in a p-n junction is known as.	A. Polar region B. Null region C. Depletion region D. Neutral region
6	The current passing across a p-n junction due to minority charge carriers is called	A. Reverse current B. Forward current C. Leakage current D. Both a and b
7	A p-type material is formed then a semiconductor is doped with	A. Trivalent impurity B. Tetravalent impurity C. All of above D. A material having excess of free electrons
8	In a n-type material there is an excess of.	A. Free electrons B. Holes C. Quarks D. Measons
9	In half wave rectifier the rms value of A.C. component of the wave is.	A. More than A.C. Value B. Less than D.C. value C. Same as that of D.C. D. Not detectable
10	Why is an oxide coated filament used in vacuum tube.	A. It has a longer lime B. Irt can with stand high C. It emit electrons at low temperature D. It reduces the effect of space charge
11	Where is the velocity of electrons maximum in a diode.	A. Near the cathode B. Near the anode C. In the space ini between the two elecrode. D. It is same throughout the tube
12	A vacuum diode conducts when plate	A. Is negative w.r.t cathode B. Is positive w.r.t. cathode C. and cathode are at the same potential D. Resistance is less
13	Which of the following material could be used for a high vacuum, high voltage tube.	A. Thoriated tungsten B. Tungsten C. Copper D. Cesium
14	The thermionic current increases when	A. Area of filament is decreased B. Area of filament is increased C. Temperature is decreased D. Work function is increased

15	Efficiency of a half wave recitifier is.	A. Almost negigible B. More than full wave rectifier C. Less than full wave rectifier D. Equal to full wave rectifier
16	When forwarded bias is applied to a junction diode it.	A. Increases the potential barrier B. Decreases the potential barrier C. Reduces the majority carrier current to zero D. Reduces the minority carrier current to zero
17	Which of the following is not an application of diodes.	A. A filters B. Bridge rectifier C. Half wave rectifier D. Full wave rectifier
18	Since a diode permits the flow of current only in one direction so it can be used as.	A. An oscillator B. A rectifier C. A phot deflector D. A transistor
19	What for is semiconductor diode used.	A. To convert D.C. to A.C. B. To convert A.C. to D.C. C. To increase voltage D. To decrease voltage
20	A forward based p-n semiconductor diode is called.	A. Photodiode B. Photovoltaic cell C. Amplifier D. Ligh emitted diode