

PPSC Physics Chapter 6 Electricity and Magnetism

Sr	Questions	Answers Choice
1	If we use two diodes and a centre tapped transformer we will get.	A. A transistor B. An amplifier C. A half wave rectifier D. A full wave rectifier
2	Photo diodes are used as	A. Optical fibre receivers B. Automatic switching C. Logic circuits D. All of the above
3	The eight most common element in the universe by mass is	A. Ge B. C C. Si D. As
4	Pure silicon has valence electrons	A. 1 B. 2 C. 3 D. 4
5	The typical value of forbidden energy gap in germinium is.	A. 0.7 eV B. 1.0 eV C. 1.4 eV D. 10 eV
6	Which one is not a semiconductor.	A. Go As B. Ge C. Sc D. In
7	The most common trivalent impurities are	A. Boron , indium B. Arsenic, indium C. Arsenic, Antimony D. Aluminium, Boron
8	With increase in temperature the electrical conductivity of intrinsic conductors.	A. Increases B. Decreases C. Remain unaffected D. First increases then decreases
9	In a half wave rectifier the rms value of the A.C. component of the wave is.	A. Less than D.C. value B. Greater than D.C. value C. Equal to D.C. value D. Zero
10	Select the one that is not a donor	A. P B. AS C. Sb D. In
11	Which one of the following materials has negative temperature coefficient.	A. Conductors B. Semiconductors C. Insulators D. Covalent bonds
12	A single silicon photovoltaic cell produces a current of the order of.	A. A few milliamperes B. 10^{-2} A C. 10^{-3} A D. 10^{-4} A
13	A single silicon photovoltaic cell produces a voltage of the order of.	A. 0.3 V B. 0.6 V C. 0.9 V D. 1.2 V
14	The advantage of LEDs over filament lamp is their	A. Small size B. Reliability C. High operating speed D. All of the above
15	When light emitting diode is forward biased, it emits light of the colour	A. Red B. Yellow C. Green D. All of these

16	In rectifiers silicon junction diodes are preferred to germanium type because.	A. They are cheaper B. They are durable C. Their much lower reverse current makes them more efficient D. Of their geometry
17	If the output voltage is not smooth but pulsating then it can be made smooth by using a circuit known as.	A. Filter B. Gate C. shunt D. Fuse
18	The circuit of full wave rectification consists of	A. Only one diode B. Two diodes C. Three diodes D. Four diodes
19	The process due to which current flows only during alternate half cycle is known as.	A. Filtration B. saturation C. Half wave rectification D. Full wave rectification
20	The process of converting A.C and D.C. is known as	A. Amplification B. _{Filtration} C. Rectification D. Saturation