

PPSC Physics Chapter 6 Electricity and Magnetism

Sr	Questions	Answers Choice
1	An electrical device is rated at 12 W , 2 A How many 1.5 V batteries are needed in the device.	A. 2 B. 4 C. 6 D. 8
2	Inductance divided by resistance and the product of capacitance and resistance both have units of.	A. Charge B. Time C. Force D. Current
3	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
4	Which of the following a natural example of a capactor.	A. Fire B. Snow C. Air D. Lightining
5	The capacitance of a capacitor increases with a decreases in.	A. Plate area B. Permitivity C. Plate separation D. Dielectric constant
6	Which one is not a semiconductor.	A. Go As B. Ge C. Sc D. In
7	The work done is moving a very small charge in an electric field from one point to another is	A. Independent of the path B. Equal to the potential difference between the two points. C. Measured in V m-1 D. Measured in J c-1
8	The permittivity of a medium.	A. Is a measure of the density B. Is equal to unity for air C. Depends on the charge derisory of the medium D. Determines the magnitude of an electric field that can be established by the medium
9	A pure capacitor is connected in an AC circuit The power factor of the circuit will be.	A. Unity B. Infinity C. 0.5 D. Zero
10	A heart coil is out into two equal parts and only one part is now used in the heater The heat generated will be.	A. Halved B. One fourth C. Doubled D. 4 times
11	Which incapability of the materials is represented by the phenomenon of hysteresis.	A. Magnetic saturation B. Low susceptibility C. Retrace the path D. Orientation
12	Super conductor are used in	A. Fast computer chips B. Magnetic resonance imaging C. Magnetic levitation trains D. All of the above
13	In a charged capacitor the energy resides	A. In the negative plateB. In the positive plateC. In the field between the platesD. Around the edge of the plates
14	In which device is a permanent magnet used	A. An electric bell B. An electromagnet C. A plotting compass D. A relay

15	One volt is equal to.	A. One joule per coulomb B. One dyne per coulomb C. One newton per coulomb D. One watt second
16	The value of power factor in an LCR sense circuit at resonance is.	A. Zero B. 0.5 C. unity D. Infinity
17	In L - C parallel circuit the coil draws a.	A. Lagging current B. Leading current C. Lagging voltage D. Leading voltage
18	The power dissipation in a pure inductive or capacitive circuit is.	A. Maximum B. Minimum C. Zero D. Infinity
19	A wire surrounded by a concentric cylindrical metal shield constitutes a.	A. Spherical capacitorB. Parallel plate capacitorC. Cylindrical capacitorD. Cylindrical condenser
20	Charge carriers in thermocouples are.	A. Anions B. Cations C. Electrons D. Protons