

PPSC Physics Full Book

Sr	Questions	Answers Choice
1	In which form energy is stored in a condenser.	A. Electric energy B. Potential energy C. Kinetic energy D. Magnetic energy
2	Lines of force are imaginary lines drawn so as to be energy point.	A. parallel to equipotential surface B. Normal to the electric field C. Indicative of the position of the nearest source charge D. Tangent to the electric field
3	The electric field intensity of a point charge varies.	A. Directly as the square of the distance from the charge B. Directly as the square of the charge C. Inversely as the distance from the charge. D. Inversely as the square of the distance from the charge
4	When a point charge which is responsible for a force being exerted on another point charge is suddenly moved the second charge experiences.	A. No change of force B. An instantaneous change of force C. A sudden change of force of some later time D. an increase of its charge because of induction.
5	The force exerted by two charged bodies on another obeys Coulomb's law provided that	A. Both bodies are in the same medium B. the charges are not too great C. On body does not lie inside the other D. The linear dimensions of the body are very much less than the distance between the bodies.
6	A device used to detect and measure charge is.	A. A voltmeter B. An ammeter C. An electroscope D. An amplifier
7	Coulomb found that the mutual force between two electric charges varies.	A. Inversely as the distance B. Inversely as the square of the distance C. directly as the distance D. Directly as the distance squared
8	Which of the following is an electrical insulator that can be polarized by an applied electric field.	A. Conductor B. Condenser C. Dielectric D. Capacitor
9	Which of the following is the ability to hold an electric charge in electromagnetism.	A. Resistance B. Impedance C. Inductance D. Capacitance
10	A charge kept at the centre of a shell. The shell has charge Q and radius R. The force on the central charge due to shell is	A. in the upward direction B. Towards left C. Towards right D. Zero
11	No current flows between two charged bodies when connected if they have same.	A. Charge B. Capacity C. Potential D. Shape
12	In comparison with the electrostatic force between two electrons the electrostatic force between two protons is.	A. Zero B. Smaller C. Greater D. Same
13	A charged capacitor has charge on its	A. Outside surface B. Inner surface C. Surroundings D. All of these

		D. Mid point
14	Force acting on a test charge between the plates of a parallel plate capacitor is F. If one of the plates is removed the force on the same test charge will be.	A. Zero B. F/2 C. F D. 2 F
15	If the number of coulombs per second through a wire of 10 Ohm resistance across a 120 V line is 12, the current is	A. 5 A B. 10 A C. 12 A D. 15 A
16	When a current of 2 A flows for 5 s through a lamp 120 W of power are used How much charge flows through the lamp.	A. 10 C B. 12 C C. 24 C D. 60 C
17	When 5 C of charge flows through a particular resistor 10 J of energy is converted What is the p.d. across the resistor.	A. 0.5 V B. 2.0 V C. 15 V D. 50 V
18	A battery drives 50 C of charge round a circuit. The total work done is 750 J What is the electromotive force of the battery.	A. 0.07 V B. 15 V C. 700 V D. 1500 V
19	The separation between the plates of a parallel plate capacitor with original capacitance C is doubled its present capacitance will be.	A. 1/4 C B. 1/2 C C. 2C D. 4 C
20	When a charged rod is brought near bits of dry cork dust The dust will.	A. Cling firmly to rod B. Be repelled from the rod C. Attract itself to the rod a first and then fly off D. Be repelled at first and then be drawn to the rod
21	When two point charges of equal magnitude and opposite sign exist very close to one another the arrangement is called.	A. An electric dipole B. An amperian current C. A null charge D. A neutral source
22	Positive electric charge is the type of charge found on a rod which has been rubbed with silk and which is made of.	A. rubber B. Glass C. Steel D. Cork
23	Object may acquire an excess or deficiency of charge by	A. Rubbing them together B. Grounding them C. Applying coulomb's principle D. Shielding them
24	In a charged capacitor the energy resides	A. In the negative plate B. In the positive plate C. In the field between the plates D. Around the edge of the plates
25	The gravitational potential inside a hollow spherical shell	A. Increases from zero at the centre to the maximum value at the surface B. Is zero throughout the interior C. Decreases from the centre D. Is uniform throughout the interior
26	The speed of the charging or discharging a capacitor depends upon the product of resistance and.	A. Current B. Voltage C. Capacitance D. Potential difference
27	On which of the following parameters the amount of charge that can be placed on a conductor does not depend on.	A. Its capacitance B. Its size or shape C. its potential D. Dielectric strength of the surrounding medium
28	The electric heater takes a current of 4 A from a 250 V supply . How long would it take the heater to convert 400,000 J of electric energy.	A. 100 s B. <div>200 s</div> C. 400 s D. 750 s
29	A dry battery can deliver 3,000 J energy to a small 2 W electric motor before the battery is exhausted for how minutes does the motor run.	A. 20 minutes B. 25 minutes C. 75 minutes D. 125 minutes
		A. The electric field strength must increase B. The electric field strength must

- B. The electric field strength must decrease
 - C. The potential must remain constant
 - D. The potential must decrease
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