

SECTION - A

Multiple Choice Questions

Q. 1 Choose the correct answer for each from the given options.

- (i) The magnitude of force between two unit charges when the distance between them is 1 meter would be:
 (a) 0.N (b) 1 N (c) 2 N (d) Coulmb's Constant
- (ii) If the area of the parallel plate capacitor is doubled then the capacitance will be:
 (a) Remain uncharged (b) half (c) Double (d) Four times
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- (iii) In an Electric circuit when Electrons move from low to high potential they will.
 (a) Gain Energy (b) Lose their identity
 (c) Lose Energy (d) Gain potential
- (iv) Oscillation are damped due to the presence of:
 (a) Linear motion (b) Restoring force
 (c) Frictional Force (d) Mechanical Force
- (v) In an oscillating pendulum, the bob accelerates from its extreme position due
 (a) Inertia (b) Tension in the string (c) Wind (d) Gravitational force
- (vi) Which type of wave can not travel through a Vacuum
 (a) Sound Waves (b) Infra-red radiation
 (c) Microwaves (d) X-rays
- (vii) Sound is a form of:
 (a) Electrical energy (b) Mechanical energy
 (c) Thermal energy (d) chemical energy
- (viii) Ohm's law is not applicable to:
 (a) Semi-conductors (b) D.O circuit (c) Small resistors
 (d) High current
- (ix) The direction of induced e.m.f in a circuit is accordance with conservation of:
 (a) Mass (b) charge (c) momentum (d) energy
- (x) The splitting of a heavy nucleus into smaller nuclei is called:
 (a) Fusion (b) Fission (c) Half-life (d) Gamma-decay
- (xi) The type of electromagnetic wave used in security scanners at night is:
 (a) Infra-red (b) Microwaves (c) Radio waves (d) X-rays
- (xii) The color that is least deviated by a prism.
 (a) Violet ray (b) Green ray (c) Red ray (d) Yellow ray