

O P JINDAL SCHOOL, SAVITRINAGAR

CLASS TEST & PRACTICE

CLASS X PHYSICS

TOPIC : MAGNETIC EFFECT
OF CURRENT AND
MAGNETISM

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- 1 Direction of rotation of a coil in electric motor is determined by
(a) Fleming's right hand rule
(b) Fleming's left hand rule
(c) Faraday law of electromagnetic inductors
(d) None of above 1
- 2 In electric motor, to make the coil rotating continuously in the same direction, current is reversed in the coil after every half rotation by a device called
(a) carbon brush (b) commutator
(c) slip ring (d) armature 1
- 3 The condition for the phenomenon of electromagnetic induction is that there must be a relative motion between
(a) the galvanometer and magnet
(b) the coil of wire and galvanometer
(c) the coil of wire and magnet
(d) the magnet and galvanometer 1
- 4 The instrument that is used to detect electric current in the circuit is known as
(a) electric motor
(b) A.C generator
(c) galvanometer
(d) none of the above 1
- 5 We can induce the current in a coil by
(a) moving the coil in a magnetic field
(b) by changing the magnetic field around it
(c) by changing the orientation of the coil in the magnetic field
(d) All of above 1
- 6 A magnet is moved towards a coil (i) quickly (ii) slowly. The induced potential difference
(a) more in (i) than in (ii) case
(b) more in (ii) than in (i) case
(c) same in both
(d) can't say 1
- 7 A.C generator works on the principle of
(a) force experienced by a conductor in magnetic field
(b) electromagnetic induction
(c) electrostatic
(d) force experienced by a charge particle in electric field. 1
- 8 Fleming's left hand and Right hand rules are used in
(a) Generator and electric motor
(b) Electric motor and generator 1

- (c) any rule can be used for any device
- (d) both are not applied for generator and motor.

9 A D.C generator works on the principle of

- (a) ohnis law
- (b) Joule's law of heating
- (c) faraday's law of electromagnetic induction.
- (d) none of the above

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10 If the current values periodically from zero to a maximum value, back to zero and then reverses its direction, the current is

- (a) direct
- (b) alternative
- (c) pulsating
- (d) none of the above

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11 Earth wire carries

- (a) current (b) voltage
- (c) no current (d) heat

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12 The main advantage of A.C power transmission over D.C power transmission over long distance is

- (a) AC transmit without much loss of energy
- (b) less insulation problem
- (c) less problem of instability
- (d) easy transformation.

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13 Which among of these are the main characteristics of fuse element?

- (a) High conductivity
- (b) low melting point
- (c) do not burn due to oxidation
- (d) All of the above

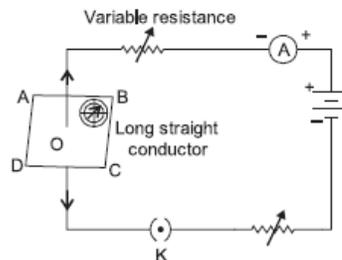
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14 Overloading is due to

- (a) Insulation of wire is damaged
- (b) fault in the appliances
- (c) accidental hike in supply voltage
- (d) All of the above

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15 If the key in the given arrangement is taken out (the circuit is made open) and magnetic field lines are drawn



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over the horizontal plane ABCD, the lines are

- (a) concentric circles
- (b) elliptical in shape
- (c) straight lines parallel to each other
- (d) concentric circles near the point O but of elliptical shapes as we go away from it