

O P JINDAL SCHOOL, SAVITRINAGAR

CLASS TEST & PRACTICE

CLASS X PHYSICS

TOPIC : MAGNETIC EFFECT
OF CURRENT AND
MAGNETISM

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- 1 In the following questions, the Assertion and Reason have been put forward. Read the statements carefully and choose the correct alternative from the following: 1
- (a) Both the Assertion and the Reason are correct and the Reason is the correct explanation of the Assertion.
- (b) The Assertion and the Reason are correct but the Reason is not the correct explanation of the Assertion. 1
- (c) Assertion is true but the Reason is false.
- (d) The statement of the Assertion is false but the Reason is true. Assertion: It is easier to bring North pole of a magnet to South pole of other magnet.
- Reason: There is a force of attraction between unlike poles of magnet.
- 2 _____ is the commercial unit of electrical energy. 1
- 3 The touching of the live wire and neutral wire directly is known as _____ . 1
- 4 A D.C. generator is based on the principle of _____ . 1
- 5 _____ generators are used in power stations to generate electricity which is supplied to our homes. 1
- 6 A _____ works on the principle that when a rectangular coil is placed in a magnetic field and current is passed through it, a force acts on the coil which rotates it continuously. 1
- 7 When North pole approaches a coil, the front side of the coil will show an _____ current. 1
- 8 By sending current through a coil wound round a rod one can magnetise it permanently. [True/False] 1
- 9 The rate of change in magnetic flux produces induced emf or potential. [True/False] 1
- 10 In ideal conditions, green colour insulation is given for live wire. [True/False] 1
- 11 Over-loading is caused by connecting many devices to one supply point. [True/False] 1
- 12 Potential of the earthed wire is zero. 1
[True/False]
- 13 When a magnet is moved with its north polarity towards a coil placed in a closed circuit, then the nearest face of the coil shows north polarity. [True/False] 1
- 14 When a coil and magnet both are stationary an induced emf is setup across the coil. [True/False] 1
- 15 Match Column I with Column II. 1

Column I	Column II
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(i) Electric motor	(A) Electromagnet
(ii) Solenoid	(B) Heating effect of electric current
(iii) Safety Fuses	(C) Electrical energy to mechanical energy
(iv) Electric generator	(D) Electromagnetic induction