



SHIKSHA CLASSES

Sub. : Science

Question Paper

Marks : 20

Std. : VIIIth - S.B.

4. Current Electricity and Magnetism

Time : 45 min.

Q.1(A) : Choose the correct alternative

2

1) The Ni-Cd cell delivers a potential difference of _____.

- a) 1 V b) 1.2 V c) 1.5 V d) 2 V

2) The working of an electric bell is based on _____.

- a) the heating effect of electric current b) the chemical effect of electric current
c) the magnetic effect of electric current d) the optical effect of electric current

Q.1(B) : Solve any one of the following question

1

1) What is the SI unit of electric current?

2) Why water in the waterfall flows from a higher level to the lower level?

3) Consider the relation between the items in the first pair and write the correlation for second pair:

Lead Acid cell: Potential difference 2V:: Ni-Cd cell:-----

Q.2(A) : Give reason (Any One)

2

1) Dry cells are very convenient to use.

2) Lead acid cells are used in cars, trucks.

Q.2(B) : Solve any two of the following question.

4

1) A battery is to be formed by joining 3 dry cells with connecting wires. Show how you will connect the wires by drawing a diagram.

2) Explain the concept of electrostatic potential (electric potential).

3) What is an electric cell? What is its main function?

4) What is an electromagnet? State its applications.

Q.3 : Solve any two of the following question.

6

1) Draw a neat labelled diagram to show the design of the lead-acid cell and explain its principle of working.

- 2) Draw a neat labelled diagram of a simple electric circuit containing a cell, an electric bulb and a plug key. What happens when the key is (i) open (ii) closed?
- 3) You must have seen the car battery available in the market. It is called a battery and not a cell. Why?
- 4) In an electric circuit, a battery and a bulb have been connected and the battery consists of two cells of equal potential difference. If the bulb is not glowing, then which tests will you perform in order to find out the reason for the bulb not glowing?

Q.4 : Solve any One of the following question.

5

- 1) Describe the construction and working of an electric bell with the help of a diagram.
- 2) Describe the construction, working and usefulness of a dry cell, with the help of a diagram.

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