



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL
POST-MIDTERM (2025-26)

SCIENCE MARKING SCHEME

Class: VIII

Duration: 1 Hr

Date: 13 /01/2026

Max. Marks: 25

General Instructions:

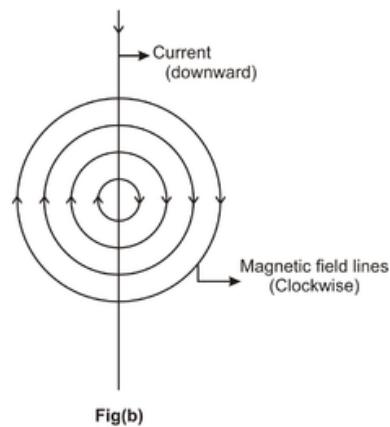
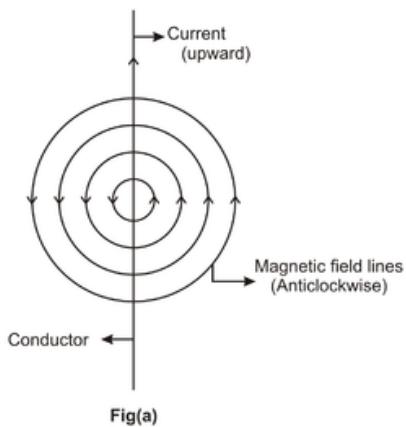
- i. This question paper consists of 12 questions in 3 sections.
- ii. Section A consists of 3 objective type questions carrying 1 mark each.
- iii. Section B consists of 5 Very Short questions carrying 02 marks each.
- iv. Section C consists of 4 Short Answer type questions carrying 03 marks each.

Section A

1. (c) Testosterone	1
2. (c) Copper wire	1
3. (a) Both assertion and reason are true, and reason is the correct explanation of assertion.	1

Section B

4. Two types of charges that an object can acquire are positive charges and negative charges.	2
5. (a) Natural phenomena are naturally occurring events, like lightning and earthquakes, that happen without human intervention. (b) The process of discharging a charged object by connecting it to the earth through a conductor is called earthing.	2
6. The heating effect of electric current is the production of heat when current flows through a conductor, converting electrical energy into thermal energy due to resistance, seen in devices like electric irons, heaters, toasters, and electric fuses	2
7. visualize concentric circles around the wire, applying the Right-Hand Thumb Rule (thumb up for current), which shows the field lines flow counter-clockwise (anticlockwise) around the wire, with arrows pointing in that circular direction.	2



8. Adolescence:

2

Adolescence is the stage of life when a child grows and develops into an adult. It includes physical, emotional, and mental changes.

Age at which it begins:

Adolescence usually begins around **10 to 12 years of age**.

Section C

9.

3

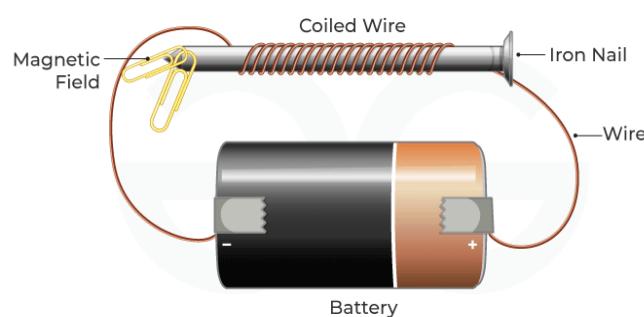


Two uses of electroscope are:

1. It detects the presence of electric charge.
2. It determines whether the charge is positive or negative.

10. An electromagnet works by using electric current to create a temporary magnetic field, typically by wrapping insulated wire around a soft iron core (like a nail) and connecting it to a power source (battery); when current flows, the iron becomes a magnet, attracting metal objects.

3



11. 1. **In boys**, the testes produce the hormone **testosterone**, which causes changes like a 3 deeper voice, growth of facial and body hair, and increase in muscle mass.
2. **In girls**, the ovaries release the hormone **estrogen**, which leads to the development of breasts, widening of hips, and the start of the menstrual cycle.
3. These hormones help boys and girls become sexually mature adults by controlling growth, reproductive organ development, and overall body changes.

12. 1. **Increase in height:** 3
There is a sudden growth spurt in both boys and girls. Their bones and muscles grow rapidly, making them taller.
2. **Changes in body shape:**
In boys, shoulders become broader and muscles develop.
In girls, hips widen and the body becomes more rounded.
3. **Development of secondary sexual characteristics:**
Boys develop facial and body hair, and their voice becomes deeper.
Girls develop breasts and start the menstrual cycle.

*****ALL THE BEST*****