



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL
POST-MID TERM EXAMINATION 2025-26
SCIENCE (086)

Class: IX

Date: 12.01. 26

Admission no:

General Instructions:

Time: 1hour

Max Marks: 25

Roll no:

- This question paper consists of 12 questions in 3 sections.
- Section A consists of 2 objective-type questions and 1 Assertion Reason based question carrying 1 mark each.
- Section B consists of 5 Very Short questions carrying 02 marks each.
- Section C consists of 4 Short Answer questions with 03 marks each.

Section A

- When two identical bodies are in motion, the body with a higher velocity has..... 1
(a) Lower Kinetic Energy (b) Higher Kinetic Energy
(c) No Kinetic Energy (d) None of the options
- The mass number of the element is _____ 1
(a) The sum of the number of electrons and protons (c) The number of neutrons
(b) The sum of the number of protons and neutrons (d) The number of protons
- Assertion: Fodder crops like berseem, oats etc. are also grown along with cereals and pulses. 1
Reason: Fodder crop is food for the livestock.
(a) Assertion and Reason are true; Reason explains Assertion
(b) Assertion and Reason are true; Reason doesn't explain Assertion
(c) Assertion true, Reason false
(d) Assertion false, Reason true

Section B

- Distinguish between positive work and negative work. When you lift an object up, two forces act on it. Identify these forces. Which one of the two does: (a) Positive work (b) Negative work. Justify your answer. 2
- Define kinetic energy. Obtain an expression for the kinetic energy of an object. 2
- If K and L shells of an atom are full, then what would be the total number of electrons in the atom? 2
- (a) Name the three sub-atomic particles of an atom.
(b) Write the number of neutrons and protons present in: $^{39}_{19}\text{K}$ 2
- Define the term hybridisation and photoperiod. 2

Section C

- A labourer whose own mass is 50 kg carries a load of an additional 60 kg on his head to the top of a building 15 m high. Find the total work done by him. Also, find the work done by him if he carries an additional block of mass 10 kg to the same height. 3
- Describe Bohr's model of the atom. 3
- What happens due to deficiency of nutrients? 3
- Differentiate between (any one point each): 3
 - Kharif and rabi crops
 - Manure and fertilizer
 - Macronutrient and micronutrient

-----ALL THE BEST-----