

5. Identify the energy involved in the following activities. [2]
- Winding a key in a toy
  - A running fast bowler
  - A falling apple
  - A stretched bow

### SECTION – C

6. Differentiate between the following: [3]
- Acceleration due to gravity and gravitational force
  - Buoyancy and upthrust
7. Explain any two methods of biological manuring. [3]

**OR**

Explain cross-breeding of cattle with an example.

8. Mention the rules to be followed according to Bohr and Bury's atomic model for writing the number of electrons in each orbital shell. [3]
9. Give reasons: [3]
- Tides rising above the surface level of the sea
  - Satellites can circle in a circular orbit
  - A concert hall's ceiling is mostly curved.
10. Explain how the second law of motion influences a cricket fielder while catching a ball. [3]
11. Calculate the potential energy of an object at rest weighing 5 kg when placed at a height of 5 m above the level of the ground. Given gravitational constant  $g = 9.8 \text{ ms}^{-2}$ . [3]

**OR**

A 40 W tube light is used for 8 hr/day. Find how much units of energy is consumed by the tube light in one day?

12. Calculate the mass of 0.125 mol NaOH. [3]

# Class 9 Sample Paper Science 2013 Fa2

**WJ Hussar**

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