



CLASS 9TH

SHORT TEST - 02

GENERAL INSTRUCTION

Maximum Marks = 30 Marks

Maximum Time = 60 minutes

Syllabus Covered : Atoms and Molecules, Gravitation, Work Power Energy, Cell : The unit of life, Structure of atom, Tissues

Q.(1) to (3) ,1 marks each – $3 \times 1 = 3M$

Q.(4) to (7), 3 marks each – $4 \times 3 = 12M$

Q. (8) to (10), 5 marks each – $3 \times 5 = 15M$

Section – A

1. Gravitational force acts on all objects in proportion to their masses. Why, then a heavy object does not fall faster than a light object?
2. An element 'X' has mass number of 4 and atomic number 2. Find the valency of 'X'.
3. Define weight of a body.

Section – B

4. What is the difference between 'g' and 'G'.
5. What is the number of valence electrons in Sodium ion and Oxide ion ?
6. (a) Why are railway tracks laid on large sized concrete sleeper ? Explain.
(b) Explain, why a truck or a motor bus has much wider tyres.
(c) Find the ratio of the pressure exerted by a block of 200N when placed on a table top along its two different sides with dimensions 20cm \times 15 cm and 30cm \times 15 cm.
7. What is a tissue? What is the utility of tissues in multicellular organism?

Section – C

8. What is Osmosis. What would happen to life of a cell if there was no Golgi apparatus?. Write the functions of Nervous tissue.
9. State the law of conservation of energy. Show that the energy of freely falling body is conserved.
10. What are Isotopes and Isobars. State difference between them. Mention two uses of isotopes.

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