

SSPKJ 8
1304-X
SCIENE-I
(Physics and Chemistry)

(Term-Ist)

Time : 2 Hours

[Maximum Marks:30]

Section –A

(Physics)

(Long Answer Type Questions)

(Answer the given below question in about 80-100 words)

1. Define balanced and unbalanced force with the help of a suitable activity. 5

Or

State and explain Newton's Second Law of Motion.

(Short Answer Type Questions)

(Answer the given below question in about 60-80 words)

2. What is energy ? Write different forms of energy. 3

3. Define the relation, $s = ut + \frac{1}{2}at^2$. 3

(Very Short Answer Type Questions)

(Answer the given below question briefly in one or two words or sentences each.)

4. What is the value of acceleration for uniform motion ? 1

5. Define uniform velocity. 1

(Multiple Choice Questions)

(In each of the following multiple questions choose the correct/most appropriate from the four alternatives and write it in your answer book.)

6. (a) The slope of velocity-time graph shows : 1

(i) Speed

(ii) acceleration

(iii) displacement

(iv) force

(b) An object on height possesses :

(i) Potential energy

(ii) Kinetic energy

(iii) Potential energy as well as Kinetic energy both

(iv) None of these

Section – B

(Chemistry)

(Long Answer Type Questions)

(Answer the given below question in about 80-100 words)

7. Differentiate between colloidal solution, true solution and suspensions. 5

Or

Distinguish between mixture and compounds.

(Short Answer Type Questions)

(Answer the given below question in about 60-80 words)

8. Define evaporation, boiling point and melting point.

3

9. Differentiate between solids and liquids.

3

(Very Short Answer Type Questions)

(Answer the given below question briefly in
one or two words or sentences each)

10. Define saturate solution.

1

11. Write one example of solid in liquid solution.

1

(Multiple Choice Questions)

(In each of the following multiple questions choose
the correct/ most appropriate answer from the
four alternatives and write it in your answer book.)

12. (a) Muddy water is an example of :

1

(i) True solution

(ii) Suspension

(iii) Colloidal solution

(iv) Emulsion

(b) The size of the particles in suspension is :

1

(i) Bigger than 10^{-5} cm

(ii) Smaller than 10^{-8} cm

(iii) Between 10^{-8} and 10^{-5} cm

(iv) None of these