

SCIENCE

I. Choose the right option from the following statements:

3x1=3

1. A) When light passes through milk, it scatters in all directions.  
R) Colloidal particles show Tyndall Effect  
i) (A) is true ii) (R) is incorrect  
iii) Both (A) and (R) are incorrect  
iv) Both (A) and (R) are true.
2. A) When we ride a bicycle, when we stop pedalling, the bicycle begins to show down .  
Reason: Frictional force acting opposite to the direction of motion i) A is wrong R is correct  
ii) A is correct R supports A iii) A is correct B is wrong.
3. Assertion A): Fungi are heterotrophic organisms.  
Reason (R): Fungi prepare their own food  
a) Assertion is correct, reason is incorrect  
b) Both assertion and reason are correct  
c) Both assertion and reason are incorrect.  
d) Assertion is incorrect, reason is correct.

II. Fill in the blanks:

4x1=4

1. The concentration of the solution depends upon the amount of \_\_\_\_ present in a solution
2. The rate of change of momentum of an object is directly proportional to applied \_\_\_\_\_ in the direction of force.
3. \_\_\_\_\_ five kingdom classification is accepted widely
4. Bryophyta are also called as \_\_\_\_\_.

III. Answer in one sentence:

6x1=6

1. Define Saturated Solution.
2. A solution contains 40g of sodium chloride in 320g of water. Calculate the concentration in terms by mass by mass % of the solution.
3. Why do we tend to fall outwards when a car takes a turn?
4. Write the SI Unit of momentum \_\_\_\_
5. What is an angiosperm?
6. What is the advancement given by Carl woese in Kingdom Monera?

IV. Answer in brief:

4x3=12

1. Write the difference between True solution suspension, Colloidal Solution.
2. Derive the mathematical formation of second Law of motion.
3. Write any three characteristics of Kingdom monera.
4. Write any three features of gymnosperm.