

SCIENCE T.T

I. Choose the correct option from the below: 3x1=3

1. A) If the liquids are miscible, the technique used to separate them is distillation.  
R) The liquids should have large difference in their boiling points.  
i) (A) is correct (R) supports (A) ii) (A) is wrong (R) is correct  
iii) (A) & (R) are correct iv) (A) & (R) are wrong.
2. A) As the sailor jumps in forward direction the boat moves backwards.  
R) Action →  
Reaction →  
a) A is correct R supports A b) A is wrong R is correct  
c) A and R both are wrong.
3. Assertion (A): Animals belonging to phylum porifera are often called sponges.  
Reason (R): The animals have porous body.  
a) Both A & R are true & R is the correct explanation  
b) Both A & R are true but R is not the correct explanation for A  
c) A is true & R is false d) A is false & R is true.

II. Fill in the blanks: 4x1=4

1. \_\_\_\_\_ is a property due to which a metal can be beaten into sheets.
2. For a every action there is an equal and \_\_\_\_\_ reaction
3. \_\_\_\_\_ is the largest phylum of animal kingdom.
4. Bilateral, dorsiventral flat symmetry is found in \_\_\_\_\_.

III. Answer in one sentence or two: 6x1=6

1. Write two differences between Mixtures and Compounds.
2. Define Crystallisation
3. State Law of Conservation of momentum.
4. Correct the mistakes: The SI Unit of force is Kgm/s. This is also known as Newton and represented by the symbol N. A force of one Newton produces an acceleration of 1m/s on an object of mass 10kg.
5. Define the term Coelom.
6. What is Cnidoblast.

IV. Answer in brief: 4x3=12

1. What is Chromatography? State its principle. Write the applications of chromatography.
2. A bullet of mass 20g is horizontally fixed with a velocity  $150\text{ms}^{-1}$  from a pistol of mass 2kg. What is the recoil velocity of the pistol?
3. Write any three characteristics of phylum platyhelminthes.
4. Write any three features of round worms.

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