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| 1 |
| download  See Picture. What is animal name? |
| **Elephant**, (family Elephantidae), largest living land animal, characterized by its long trunk (elongated upper lip and nose) |
| knowledge |
| Vikas |
| Hard |
| 3 |
| CB-EN-C10-MH-POLI-02 |
| Cat |
| Lion |
| Elephant |
| deer |

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| 2 |
| Which of the following aqueous solutions should have the highest boiling point? |
| 0 degree |
| knowledge |
| vikas |
| easy |
| 3 |
| CB-EN-C10-MH-POLI-01 |
| 0 degree |
| 1 degree |
| 100 degree |
| 4 degree |

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| 3 |
| Which of the following aqueous solutions should have the highest constant point? |
| 0 degree |
| knowledge |
| vikas |
| hard |
| 4 |
| CB-EN-C10-MH-POLI-01 |
| 0 degree |
| 1 degree |
| 100 degree |
| 4 degree |

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| 4 |
| C:\Users\GlobalTL\AppData\Local\Microsoft\Windows\INetCache\Content.Word\5bbbf752d6131.jpg  See Picture. What is animal name? |
| African **lions** are large, muscular, barrel-chested cats. They have a rounded head, round ears, short fur, and a long tail with a tuft of hair at the end. |
| knowledge |
| Vikas |
| easy |
| 2 |
| CB-EN-C10-MH-POLI-02 |
| Cat |
| Lion |
| Elephant |
| deer |

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| 5 |
| Q-1. Formation of a solution from two components can be considered as  (i) pure solvent → separated solvent molecules, H1  (ii) pure solute →separated solute molecules, H2  (iii) separated solvent and solute molecules →solution, H3  Solution so formed will be ideal if |
| Solution- If net Hsoln is the sum of three steps, this means that solute-solvent interactions are similar to solvent- solvent and solute-solute interactions. |
| knowledge |
| Vikas |
| easy |
| 1 |
| CB-EN-C10-MH-POLI-03 |
| a. Hsoln = H1+ H2+ H3 |
| b. Hsoln= H1+ H2- H3 |
| b. Hsoln= H1+ H2- H2 |
| b. Hsoln= H1+ H2- H4 |

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| 6 |
| Q-2. Which of the following aqueous solutions should have the highest boiling point ? |
| Solution- H—O.....H—O...H—O.... On adding acetone, its molecules get in between  | | |  CH3 CH3CH3  the molecules of methanol breaking hydrogen bonds and reducing methanol-methanol attractions. |
| knowledge |
| Vikas |
| hard |
| 2 |
| CB-EN-C10-MH-POLI-05 |
| a. 1.0 M NaOH |
| b. 10 M Na2SO4 |
| c. 10 M Na2SO3 |
| d. 10 M Na2SO9 |

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| 7 |
| Q-3. Van't Hoff factor i is given by the expression \_\_\_\_\_\_\_\_\_\_ |
| Solution- |
| knowledge |
| Vikas |
| hard |
| 2 |
| CB-EN-C10-MH-POLI-07 |
| a. i = |
| b. i = |
| c. i = |
| d. i = |

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| 8 |
| Q.4. A 50 cm long bar AB is moved with a speed of 4 ms-1 in a magnetic field B = 0.01 T as shown in the fig.    The emf generated is |
| solution- ε = Blv = 0.01 × 0.50 × 4V = 0.02 V. |
| adaptive |
| Vikas |
| hard |
| 2 |
| CB-EN-C10-MH-POLI-08 |
| a. 0.01 V |
| b. 0.02 V |
| c. 0.03 V |
| d. 0.04 V |