

ANSWERS

I. Multiple Choice Questions (Type-I)

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|----------|-----------|-----------|---------|----------|----------|
| 1. (iv) | 2. (i) | 3. (iii) | 4. (iv) | 5. (i) | 6. (i) |
| 7. (i) | 8. (iii) | 9. (ii) | 10. (i) | 11. (i) | 12. (i) |
| 13. (ii) | 14. (i) | 15. (iii) | 16. (i) | 17. (iv) | 18. (ii) |
| 19. (i) | 20. (iii) | 21. (iv) | | | |

II. Multiple Choice Questions (Type-II)

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| 22. (ii), (iv) | 23. (i), (iii) | 24. (i), (ii) | 25. (ii), (iii) |
| 26. (i), (iii) | 27. (i), (ii) | 28. (i), (ii) | |

III. Short Answer Type

31. (i) $O_2^{2-} + 2H_2O \longrightarrow 2OH^- + H_2O_2$
(ii) $2O_2^- + 2H_2O \longrightarrow 2OH^- + H_2O_2 + O_2$

IV. Matching Type

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|--------------|-----------|------------|---------------|
| 41. (i)→(c), | (ii)→(b), | (iii)→(d), | (iv)→(a), (e) |
| 42. (i)→(c), | (ii)→(d), | (iii)→(b), | (iv)→(a) |
| 43. (i)→(f), | (ii)→(d), | (iii)→(b), | (iv)→(c) |
| (v)→(e), | (vi)→(a) | | |

V. Assertion and Reason Type

44. (i) 45. (i)

VI. Long Answer Type

50. Compound : A : CaO; B : Ca(OH)₂; C : CaCO₃; D : Ca(HCO₃)₂
Ca(HCO₃)₂ is soluble in water. Hence, milky solution disappears on passing excess carbon dioxide into the solution of compound B.
51. $8LiH + Al_2Cl_6 \longrightarrow 2LiAlH_4 + 6LiCl$
 $LiAlH_4 + 2BeCl_2 \longrightarrow 2BeH_2 + LiCl + AlCl_3$
52. The element is beryllium
53. The element is sodium.