

- _____ is diluted 100 times. The pH of the diluted base is
 - between 7 and 8
 - between 5 and 6
 - between 6 and 7
 - between 10 and 11
- An _____-hybrid orbital contains
 - _____ -character (b) _____ -character
 - _____ -character (d) _____ -character
- Leaching is a process of
 - reduction (b) concentration
 - refining (d) oxidation
- Electrolysis of fused NaCl will give
 - Na (b) NaOH
 - NaClO (d)
- Which of the following fluorides does not exist?
 - (a) (b)
 - (c) (d)
- Red lead is
 - PbO (b)
 - (c) (d)
- Hybridisation states of C in _____⁺ and _____ are
 - (a) (b)
 - (c) (d)
- Which one of the following complexes is outer orbital complex?
 - (a) (b)
 - (c) (d)
- A solution made by dissolving 40 g NaOH in 1000 g of _____ is
 - 1 molar (b) 1 normal
 - 1 molal (d) None of these
- 0.1 mol HCl is equal to
 - 3.65 g (b) 36.5 g
 - 18 g (d) 1.8 g
- Which will liberate bromine from a solution of potassium bromide?
 - (a) (b) (c) (d) HI
- Which of the following has the maximum number of unpaired electrons?
 - (a) _____⁺ (b) _____⁺
 - (c) _____⁺ (d) _____⁺
- The geometry of _____ is
 - planar hexagon (b) regular octahedron
 - distorted octahedron (d) square bipyramid
- The correct statement with regard to _____ and _____ is
 - both _____⁺ and _____ are equally stable
 - both _____⁺ and _____ do not exist
 - _____ is more stable than _____⁺
 - _____⁺ is more stable than _____

35. The metal that produces red-violet colour in the non-luminous flame is
 (a) Ba (b) Ag
 (c) Rb (d) Pb
36. According to the first law of thermodynamics which of the following quantities represents the change in a state function?
 (a) — (b) —
 (c) — (d) +
37. The maximum oxidation state exhibited by actinide ions is
 (a) +5 (b) +4
 (c) +7 (d) +8
38. The dispersed phase and dispersion medium in soap lather are respectively
 (a) gas and liquid (b) liquid and gas
 (c) solid and gas (d) solid and liquid
39. The expression for the solubility product of will be
 (a) = (b) =
 (c) = (d) =
40. A 600 W mercury lamp emits monochromatic radiation of wavelength 331.3 nm. How many photons are emitted from the lamp per second?
 = \times velocity of light
 = \times
 (a) \times (b) \times (c) \times (d) \times

Answer – Key

1. a	2. a	3. b	4. a	5. a	6. c	7. a	8. d	9. c	10. a
11. b	12. c	13. c	14. d	15. b	16. a	17. c	18. a	19. c	20. b
21. a	22. c	23. c	24. b	25. b	26. c	27. b	28. d	29. a	30. d
31. b	32. d	33. d	34. b	35. c	36. d	37. c	38. a	39. b	40. c