

**+2 PCB TEST – 7 (27.3.2019) Answer Key**

**CHEMISTRY**

1. C

Sol. Formula is  $[\text{Co}(\text{NH}_3)_6]\text{Cl}_3$  &  $[\text{Pt}(\text{NH}_3)_5\text{Cl}]\text{Cl}_3$

2. B      3. A      4. B      5. A

6. B

Sol. It is  $\text{F}_2 > \text{Cl}_2 > \text{Br}_2 > \text{I}_2$

7. D

8. B

Sol.  $K_a = C\alpha^2$

9. D

10. C

11. C

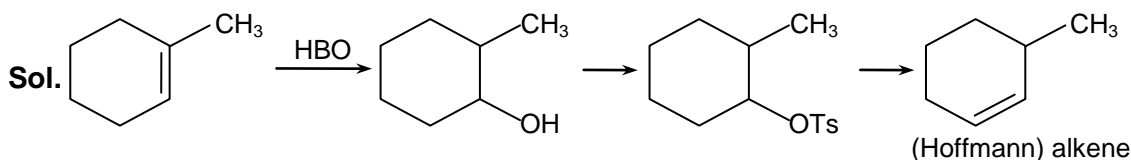
12. C

13. C

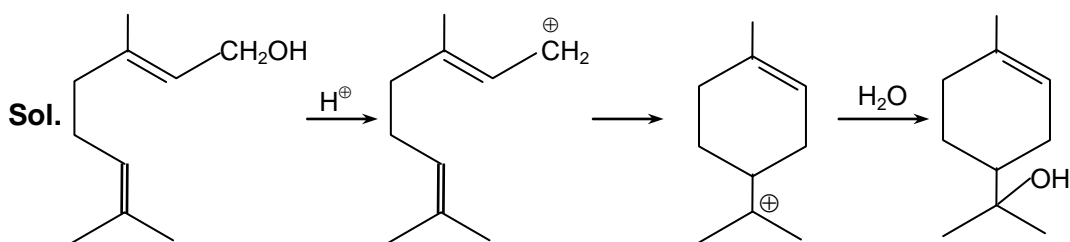
14. A

15. B

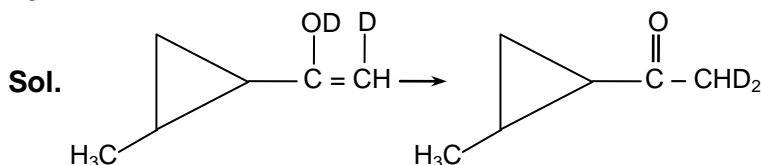
16. C



17. D



18. B



19. B

20. D

21. D

Sol. Being salt causes coagulation rest are protected colloids.

22. D

Sol. 
$$\frac{P^\circ - P}{P^\circ} = \frac{W_B}{M_B} \times \frac{M_A}{W_A}$$

$$\frac{854 - 848.9}{854} = \frac{2}{x} \times \frac{76}{100}$$

$$x = 257.62$$

$$\text{No. of atoms} = \frac{257.62}{32} = 8$$

23. C

24. B

Sol. Melting of ice at 273 is non-spontaneous, which require external energy.

25. B

26. C

Sol. C = Decarboxylation, iodoform

27. B

Sol. It is the ratio of their vantHoff's factor i.e.  $\frac{5}{7} = .71$

28. B

Sol. It is internal esterification

29. D

Sol.  $\frac{.2}{.95} = 0.21$  (For triangular void)

30. C

Sol.  $Fe^{+3} = .14$  &  $Fe^{+2} = .79$ ;  $\% Fe^{+2} = \frac{.79}{.93} \times 100 = 84.9\%$

31. A

Sol. Free radical reaction  $\rightarrow$  Allylic substitution

32. B      33. A      34. B      35. C

36. B

Sol.  $Na + Al_2O_3 \longrightarrow Na_2O$

$Na_2O + CO_2 \longrightarrow Na_2CO_3$

37. A      38. A      39. D      40. A

41. A

Sol. It is a non-planer molecule

42. D      43. B      44. C

45. B

