

CHEMISTRY FOR NEET

| | (1) Analgesic | (2) Antibiotic | (3) Antipyretic | (4) Both (1) and (3) | | | | | |
|-----|--|---|---|-----------------------------|--|--|--|--|--|
| 14. | Heroin is a derivative o (1) Caffeine | f : (2) Cocaine | (3) Nicotine | (4) Morphine | | | | | |
| 15. | Which of the following i (1) Cocaine | s/are antidepressant dru (2) Benzedrine | g/s ? (3) Tofranil | (4) All the three | | | | | |
| 16. | Penicillin was discovere (1) Alexander Fleming | • | (3) Walkman | (4) Abraham | | | | | |
| 17. | Salol can be used as : (1) Antiseptic | (2) Antipyretic | (3) Analgesic | (4) Disinfectant | | | | | |
| 18. | A hybrid propellant use (1) A solid fuel and a lic (3) A biliquid propellant | quid oxidiser | (2) A composite solid propellant (4) A monoliquid propellant | | | | | | |
| 19. | Which of the following i (1) Hydrazine (3) Monomethylhydrazi | s not used as a propella ne | ant ? (2) Unsymmetrical dimethylhydrazine (4) Phenylhydrazine | | | | | | |
| 20. | Refining of petroleum c (1) simple distillation (3) fractional distillation | | (2) steam distillation (4) distillation under reduced pressure | | | | | | |
| 21. | Which one of the follow (1) Vitamin A | ring vitamin contains a m (2) Vitamin B ₂ | etal atom ? (3) Vitamin B ₆ | (4) Vitamin B ₁₂ | | | | | |
| 22. | Which statement is incorrrect ? (1) Salol is used as antiseptic. (2) Tincture of iodine is 2-3% solution of iodoform in alcohol-water. (3) Thiourea and benzenethiol can be separated by water. (4) Aspartame is used as sweetning agent in cold drinks. | | | | | | | | |
| 23. | Which of the following compounds can be separated by water ? | | | | | | | | |
| | (1) OH | (2) | (3) | (4)NO ₂ | | | | | |
| 24. | Vitamin B ₆ is known as | | | | | | | | |
| | (1) Pyridoxine | (2) Thiamine | (3) Tocopherol | (4) Riboflavin | | | | | |
| 25. | a mixture of two arom gives | I, A is soluble and its residue B | | | | | | | |
| | 2, 4 DNP test, identify ((1) Ph–COOH and Ph– | • | (2) $Ph - C - Ph$ and $Ph - NH_2$ | | | | | | |
| | (3) Ph – OH and Ph–N | H ₂ | (2) $Ph - C - Ph$ and $Ph - NH_2$ (4) $Ph - OH$ and $Ph - C - Ph$ (4) O | | | | | | |
| | | | | | | | | | |

- **26.** When a mixtrue of compound A & B dissolves in H_2O . A is soluble and gives smell of ammonia on heating with addition of conc. NaOH. Its residue B has sublimable nature. Identify A and B.
 - (1) $\operatorname{ArCONH}_{2}$ and ArCOOH (2) $\operatorname{R} - \operatorname{C} - \operatorname{NH}_{2}$ and $\left[\begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \right]$ (3) $\left[\begin{array}{c} \operatorname{COOH} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \right]$ and $\operatorname{Ar} - \operatorname{NO}_{2}$ (4) $\operatorname{Ar} - \operatorname{C} - \operatorname{NH}_{2}$ and $\left[\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \right]$
- 27. Which of the following statement is not true ?

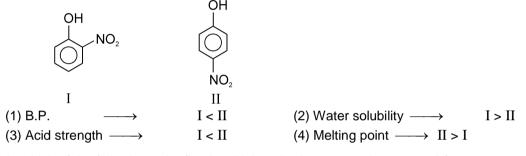
(1) Small aliphatic compound with at least two functional group which can form hydrogen bond are water soluble

(2) Most of the aromatic compounds are water insoluble due to large hydrophobic group of six carbon atom.

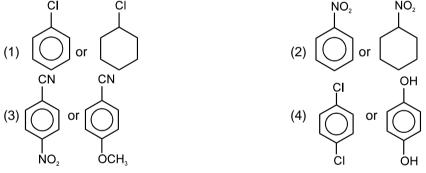
(3) Aromatic amines are soluble in aq. NaOH but insoluble in aq. HCl.

(4) Aromatic hydroxy compounds are soluble in aq. NaOH solution.

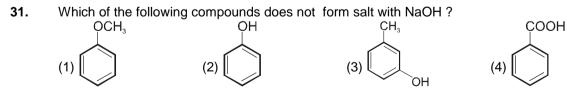
28. The correct orders about compounds I and II are :



29. In which of the following pairs first has higher dipole moment than second ?



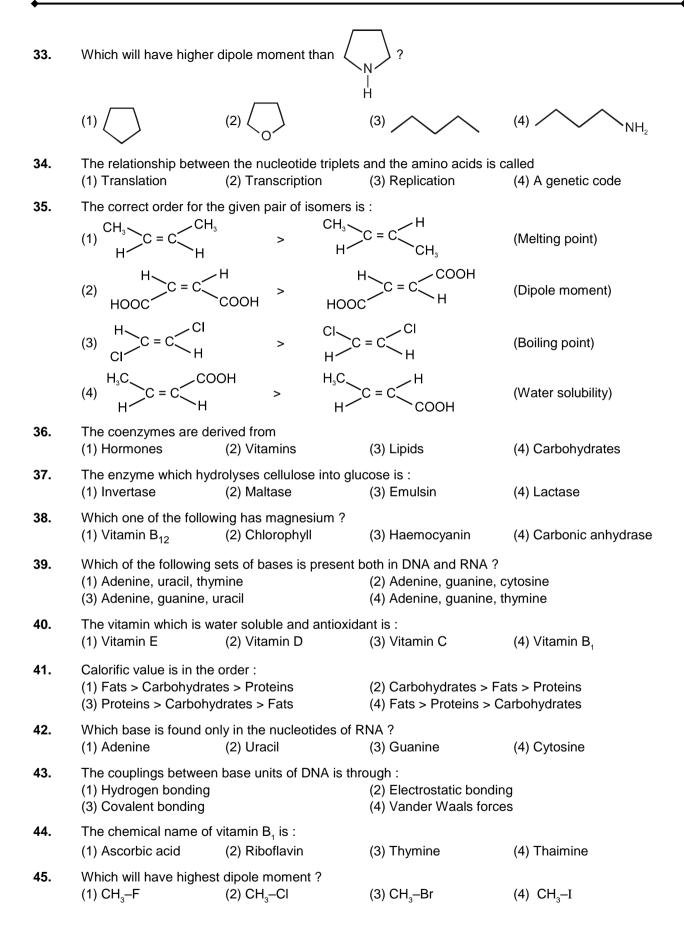
- **30.** Which of the following statements about DNA is not correct ?
 - (1) It has a double helix structure
 - (2) It undergoes replication
 - (3) The two strands in a DNA molecule are exactly similar
 - (4) It contains the 2-deoxyribose pentose sugar.



32. The boiling points of two miscible liquids, which do not form azeotropic mixture, are close to each other. Their separation is best carried out by :

(1) vacuum distillation (2) fractional distillation (3) steam distillation (4) redistillation

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| | SP | P A | nsv | /ers | | | | | | | | | |
|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1. | (1) | 2. | (4) | 3. | (2) | 4. | (3) | 5. | (4) | 6. | (2) | 7. | (1) |
| 8. | (4) | 9. | (2) | 10. | (3) | 11. | (2) | 12. | (3) | 13. | (4) | 14. | (4) |
| 15. | (4) | 16. | (1) | 17. | (1) | 18. | (1) | 19. | (4) | 20. | (2) | 21. | (4) |
| 22. | (2) | 23. | (1) | 24. | (1) | 25. | (4) | 26. | (2) | 27. | (3) | 28. | (4) |
| 29. | (2) | 30. | (3) | 31. | (1) | 32. | (2) | 33. | (2) | 34. | (4) | 35. | (2) |
| 36. | (2) | 37. | (3) | 38. | (2) | 39. | (2) | 40. | (3) | 41. | (4) | 42. | (2) |
| 43. | (1) | 44. | (4) | 45. | (2) | | | | | | | | |

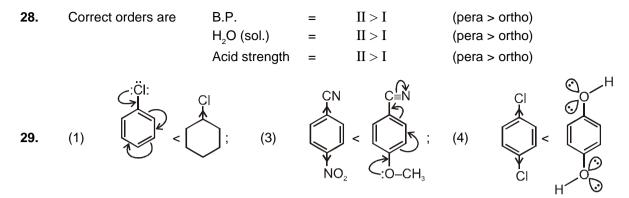
SPP Solutions

- 1. Milk contains vitamins A, D and E.
- **3.** Melting point depends on symmetry of molecule.
- **6.** Boiling point ∞ molecular weight.
- 8. Lighter phenol and aromatic carboxylic acid both reacts with sodium hydroxide, sodium sulphate and calcium chloride. While only aromatic carboxylic acid reacts with sodium bicarbonate. So, they can be seperated by sodium bicarbonate. ∴ option (4) is correct.
- **9.** Natural dyes are obtained from plants. e.g. Alizarin.
- **10.** Vat dyes are insoluble dyes. e.g. Indigo.
- **11.** Aniline yellow, malechite green etc, are the examples of basic dyes.
- **12.** The most widely used antipyretic is paracetamol.
- **13.** Novalgin is a common analgesic and antipyretic.
- **14.** Heroin is a derivative of morphine.
- **15.** This is informative question.
- **16.** Fleming was discoverer of penicillin.
- **17.** Salol is used as intestinal antiseptic.
- **18.** For e.g. Acrylic Rubber (solid fuel) and liquid N_2O_4 (liquid oxidiser)
- **20.** Steam distillation is not the step of refining.
- 2 to 3% solution of iodine dissolved in alcohol-water mixture is called tincture of iodine which acts as antiseptic.Thiourea is soluble in water.
- **23.** Lower alcohol are soluble in water.
- 25. Ar-OH dissolve in NaOH and carbonyl group gives +ve test with 2,4-DNP so Ph C Ph gives +ve

2,4DNP test.

- **26.** With conc. NaOH, amide gives smell of ammonia and aliphatic amides is soluble in H_2O .
- **27.** Aromatic amines are soluble in aq. HCl due to salt formation.

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- **31.** Anisol does not form salt with NaOH.
- **32.** If boiling points are closer then best separation is done by fractional distillation.
- 34. The relationship between the nucleotide triplets and the amino acids is called a genetic code.
- **35.** Dipole moment of cis isomer > dipole moment of trans isomer and hence water solubility. (cis isomer is greater than trans isomer).
- **36.** The coenzymes are derived from vitamins.
- 37. The enzyme which hydrolyses cellulose into glucose is emulsin.
- **38.** Chlorophyll has magnesium.
- **39.** Adenine, guanine, cytosine sets of bases is present both in DNA and RNA.
- **40.** Vitamin C is water soluble and antioxidant.
- **41.** Calorific value is in the order Fats > Proteins > Carbohydrates.
- **42.** Uracil base is found only in the nucleotides of RNA
- **43.** The couplings between base units of DNA is through hydrogen bonding.
- **44.** The chemical name of vitamin B_1 is thaimine
- **45.** Due to the more inter nuclear distnace between carbon and chlorine, dipole moment (μ = Charge × distance) of CH₃-Cl is more as compare to CH₃-F.