



Sample Multiple Choice Questions

Class: S.Y.B. Sc (Chemistry)

Semester: IV

Subject: Chemistry Paper III

- The F-test is used -----.
 - For rejection of data
 - For testing of significance
 - For obtaining the best fitting
 - For obtaining graphical presentation.
- Electrophoresis is a -----.
 - Separation method
 - Electroanalytical method
 - Separation method using electric field
 - Electrolysis of the solution.
- A conductivity cell contains ----- electrode.
 - Silver
 - Platinum
 - Nickel
 - Copper
- The doubtful value in a given set of measurement is rejected or retained using ----- test.
 - Q-test
 - Student's t
 - Chi-square test
 - F-test
- Confidence limit is defined as -----.
 - $\frac{t_s}{n}$
 - $\frac{t_s}{n^2}$
 - $\frac{t_s}{n \times 2}$
 - $\frac{t_s}{\sqrt{n}}$
- electrode is used as reference electrode in acid-base potentiometric titrations.
 - Calomel
 - Quinhydrone

- c) Glass
 - d) Nickel
7. Variance is defined as square of -----.
- a) Mean
 - b) Standard deviation
 - c) Mode
 - d) Median
8. Percentage extraction it is define as ----- expressed as percentage.
- a) Extraction efficiency
 - b) Efficiency
 - c) Double Extraction
 - d) Extraction.
9. For acid-base potentiometric titrations, quinhydrone electrode is called as ----- electrode.
- a) Reference
 - b) Indicator
 - c) Contact
 - d) Standard
10. Out of the two techniques TLC and PC reproducibility is better in -----.
- a) Thin layer chromatography
 - b) Paper chromatography
 - c) In both cases,
 - d) In neither of the two
11. The plot of pH versus volume of titrant added is ----- in shape.
- a) V
 - b) Passing through origin
 - c) S
 - d) Cut on y-axis
12. During the conductometric titration of acetic acid against NH_4OH , beyond the equivalence point, the conductance of the solution -----
- a) Remains same
 - b) Increase
 - c) Decrease
 - d) Both Increase and decrease
13. Centrifuge is -----.
- a) Similar to crystallization.
 - b) Similar to fractional distillation.
 - c) Similar to gravitational separation.
 - d) Similar to gravimetric analysis.
14. Absolute deviation is different between -----.
- a) Mode and Observation
 - b) Mean and observation
 - c) Median and observation
 - d) Standard deviation and observation.
15. The mechanism of separation in TLC is -----.

- a) Adsorption
 - b) Partition
 - c) Can be either adsorption or partition
 - d) Neither adsorption nor partition
16. The distribution ratio is denoted by -----.
- a) S
 - b) B
 - c) D
 - d) V
17. Which is secondary reference electrode
- a) Standard hydrogen electrode
 - b) Platinum electrode
 - c) Calomel electrode
 - d) Glass electrode
18. In acid-base potentiometric titration, end point is determined by----- method.
- a) Graphically
 - b) Manually
 - c) Standardization.
 - d) All the above
19. The most frequently obtained observation from the given set is known as -----.
- a) Mean
 - b) Mode
 - c) Median
 - d) Standard deviation
20. Solvent extraction is based on -----.
- a) Nernst distribution law
 - b) Beer's Law
 - c) Lambert's law
 - d) Beer-Lambert' Law
21. Which is primary reference electrode
- a) Glass electrode
 - b) Standard hydrogen electrode
 - c) Platinum electrode
 - d) Silver electrode
22. Confidence limit is defined as the ----- for the given set of observation.
- a) Mode
 - b) Mean
 - c) Range
 - d) Median
23. The 4.0 d rule is used for -----.
- a) Rejection of result.
 - b) Test of significance.
 - c) Graphical presentation of result.
 - d) For comparison of means.

24. Paper chromatography the mechanism of separation is always-----.

- a) Partition
- b) Adsorption
- c) Absorption
- d) Planer

25. Quinhydrone electrode works satisfactorily in the pH range of -----.

- a) 8 to 11
- b) 1 to 8
- c) 1 to 14
- d) 14 to 1