



GOVERNMENT COLLEGE UNIVERSITY FAISALABAD
EXTERNAL SEMESTER EXAMINATION FALL 2022-2023

Degree/ Discipline:

BS Zoology (3rd Semester)

OBJECTIVE PART

Course Code: CHIM-421

Course Title: Basic Analytical Chemistry

Credit Hours: 3(2-1)

Time: 30 minutes

Marks: 20

ROLL NO. _____

Encircle the best possible answer from following options. Cutting and overwriting will earn no marks.

1. An error may be defined as difference in
 - a) Measured value and true value
 - b) Measured and observed value
 - c) Both a & b
 - d) None of these
2. All experimental analysis may be due to either
 - a) Descriptive statistics
 - b. Influential statistics
 - c. systematic error or random error
 - d. All of these
3. Which of the following is the source of systematic error?
 - a. Error in calibration
 - b. incorrect measuring techniques
 - c. Biase of exprimentor
 - d. All of these
4. Limitations imposed by the precision of measuring instrument is also main source of what type of error
 - a. Systematic
 - b. Random
 - c) descriptive analysis
 - d) inferential analysis
5. How many significant figures in each?
 - a) 3.200×10^9
 - b) $2.33 \times 6.085 \times 2.1$
 - c) 780,000,000
 - d) $(4.52 \times 10^{-4}) + (3.980 \times 10^{-6})$
6. The statistical test best suited for testing the validity of a model used to fit a data set is:
 - a) Paired-t test.
 - b) F test.
 - c) Q test
 - d) A combination of the paired-t and F tests.
 - e) No response is correct
7. Measurement which is close to true value
 - a. Accurate
 - b. average
 - c. precise
 - d. error
8. Determinate error can be
 - a. Avoided
 - b. Corrected
 - c) Both a & b
 - d) can, t be corrected
9. The cells or cuvettes are used for handling sample
 - a) Solid
 - b) liquid
 - c) Both of these
10. Select the wavelength range corresponding to UV-visible region.
 - a) 400-800nm
 - b) 200-800nm
 - c) 25-2.5micro metre
 - d) 2.5-1mm
11. The branch of science that deals with the study of interaction of matter with light is
 - a) Chromatography
 - b) polarography
 - c) spectroscopy
12. The maximum length of the electric vector in the wave is called
 - Fequency
 - b) Wavelength
 - c) amplitude
13. Which of the following are considered to be the lowest form of Electromagnetic radiation?
 - a) IR radiation
 - b) UV radiation
 - c) Radio waves
 - d) Microwaves
14. Atomic Emission Spectroscopy is the measurement of intensity of emitted light at a particular wave length from atoms that are excited by light. T or F
15. Sodium givescolor when burn on flame
 - a) Red
 - b) green
 - c) yellow
 - d) crimson
16. Which technique is also known as colour writing?
 - a) UV/VIS spectroscopy
 - b) IR spectroscopy
 - c) chromatography
 - d) electrochemistry
17. Chromatography is a physical method of separation ofmixture
 - a) Simple
 - b) complex
 - c) viscous
 - d) metals
18. In which Chromatography s.p. is more polar than m.p. ?
 - a) Ion exchange
 - b) Liquid liquid Chromatography
 - c) Reversed chromatography
 - d) None of these
19. Chromatogram is?
 - a) Solute concentration vs Elution time
 - b) Solute concentration vs Elution volume
 - c) A and B
 - d) None of the above
20. What is Eluent ?
 - a) is a liquid solution
 - b) is a liquid solution that is a result from Elution.
 - c) It is a solvent that used for separation of absorbed material from stationary phase.
 - d) None of the above

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ROLL NO. _____

2. Q. What is chromatography. Give classification of chromatography on the basis of mechanism of separation of solute (10)
- b. What is EMR. Give different properties of EMR (10)
3. What is analytical chemistry and analysis. Give its applications in different disciplines of life (20)
4. Classify analytical techniques. How can you perform the analysis and what are different steps involved from planning to analysis (20)
5. What is spectroscopy? Give instrumentation and working principle of IR spectrophotometer (20)

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RD Boyd



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Table of Contents Past Paper Yebooffice

1. Understanding the eBook Past Paper Yebooffice
 - The Rise of Digital Reading Past Paper Yebooffice
 - Advantages of eBooks Over Traditional Books
2. Identifying Past Paper Yebooffice
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Past Paper Yebooffice
 - User-Friendly Interface
4. Exploring eBook Recommendations from Past Paper Yebooffice
 - Personalized Recommendations
 - Past Paper Yebooffice User Reviews and Ratings
 - Past Paper Yebooffice and Bestseller Lists
5. Accessing Past Paper Yebooffice Free and Paid eBooks
 - Past Paper Yebooffice Public Domain eBooks

- Past Paper Yebooffice eBook Subscription Services
- Past Paper Yebooffice Budget-Friendly Options
- 6. Navigating Past Paper Yebooffice eBook Formats
 - ePub, PDF, MOBI, and More
 - Past Paper Yebooffice Compatibility with Devices
 - Past Paper Yebooffice Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Past Paper Yebooffice
 - Highlighting and Note-Taking Past Paper Yebooffice
 - Interactive Elements Past Paper Yebooffice
- 8. Staying Engaged with Past Paper Yebooffice
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Past Paper Yebooffice
- 9. Balancing eBooks and Physical Books Past Paper Yebooffice
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Past Paper Yebooffice
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Past Paper Yebooffice
 - Setting Reading Goals Past Paper Yebooffice
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Past Paper Yebooffice
 - Fact-Checking eBook Content of Past Paper Yebooffice
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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