

Roll No.

Z - 4573

**B.Sc.-Honors (Fifth Semester)
EXAMINATION, Dec.-2022**

CHEMISTRY

Paper-504-DSF-2

**RESEARCH METHODOLOGY FOR
CHEMISTRY**

Time : Three Hours

Maximum Marks : 60

Minimum Pass Marks : 21

Note- Attempt *all* questions. Question no. 1 is compulsory.

1. Attempt any *five* questions in not more than 50 words— $2 \times 5 = 10$

- (i) What is Chemical Abstract ?
- (ii) What is Google Scholar ?
- (iii) What is the framework for oral presentation ?
- (iv) Explain bibliography.
- (v) Describe safety in the laboratory.
- (vi) Explain explosive hazards.

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- (vii) What is significant figures ?
- (viii) What is curve fitting ?
- (ix) Describe electronic circuit of spectrophotometer.
- (x) How will you do recycling of laboratory chemicals ?

Unit-I

2. How will you collect print literature survey and digital literature survey ? Explain in detail.
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Or

Write short notes on the following—

- (i) Journals.
- (ii) Reviews.
- (iii) Web resources.
- (iv) Scopus.

Unit-II

3. Briefly explain organisation and poster display, oral presentation and scientific paper. 10

Or

Write short notes on the following—

- (i) Publication of Scientific Work.
- (ii) Writing ethics.

Unit-III

4. Give a brief account of safe storage and use of hazardous chemicals and safe storage and disposal of Waste Chemicals. 10

(3)

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Or

Highlight the following—

- (i) Recovery, recycling and reuse of laboratory chemicals.
- (ii) Procedures for laboratory disposal of explosives.

Unit-IV

5. Discuss the principles and analysis of ANOVA. 10

Or

Write short notes on correlation and regression.

Unit-V

6. Describe typical circuits of operational amplifiers for electrochemical instruments. 10

Or

Write short notes on Digital electronics.

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