

- (i) Distribution A has the same degree of variation as distribution B. Do you agree ? Give reason.
- (ii) Both distribution have the same degree of skewness. (True/False.)
Give reason.

Unit IV

7. Write notes on the the following : **8,7**
(a) Food note and bibliography
(b) Authored and Edited Books
8. Discuss a comprehensive layout of research report. **15**

No. of Printed Pages : 4

Roll No.

0171

**Ph. D. Course Work EXAMINATION,
May 2019**

CHEMISTRY

CH901B

Research Methodology

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. All questions carry equal marks.

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Unit I

1. List the steps that are used in conducting experimental research. Describe each step involved in the process. **15**
2. Discuss the criteria for the consideration of Plagiarism and explain how to avoid it. State probable punishments if Plagiarism found. **15**

Unit II

3. What is an Operating System ? Discuss UNIX operating system and any *ten* Unix Commands. **15**
4. (a) Explain LAN, WAN and MAN and discuss their applications. **8**
(b) Discuss, how to effectively use the Internet for Research ? **7**

Unit III

5. (a) Explain graphical representation of data. Write its importance. Draw Line, Bar and Pie diagram by taking suitable data for these. **9**

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- (b) How do you construct a histogram from a continuous variable ? **6**

6. (a) If the median of the distribution given below is 28.5, find the values of X and Y. **5**

Class Interval	Frequency
0–10	5
10–20	X
20–30	20
30–40	10
40–50	Y
50–60	5
60–70	5
Total	60

- (b) Consider the following distribution : **10**

Distribution A Distribution B

Mean	100	90
Median	90	80
Standard Deviation	10	10

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