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Total Pages: 3

322604

May, 2023

B. Sc. (Chemistry) VI Semester Research Methodology for Chemistry (DECC-603)

Time: 3 Hours]

[Max. Marks: 75

Instructions:

- 1. It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.
- 2. Answer any four questions from Part-B in detail.
- 3. Different sub-parts of a question are to be attempted adjacent to each other.

PART-A

(a) What is the purpose of abstracts in journals?

(b)	Define H-index?	(1.5)
(c)	What is the difference between Scirus	and Google
	Scholar as search engines?	(1.5)
(d)	Briefly describe some safe working procedures in	
	laboratory?	(1.5)

(e) What is the purpose of writing literature surveys and reviews? (1.5)

(f) Discuss Analysis of Variance (ANOVA). (1.5)

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(1.5)

	(g)	papers?	(1.5)
	(h)	What is the purpose of statistical tests in analysis?	data (1.5)
	(i)	What are the 4 basic types of electronic component	ents?
			(1.5)
	(j)	What is incineration of hazardous chemicals?	(1.5)
		PART-B	
2.	(a)	What are primary, secondary, and tertiary source	es of
		information in literature survey? Explain in det	ail.
			(10)
	(b)	What is an impact factor and how is it calculate	ed?
			(5)
3.	(a)	How can the internet be used for finding and of published information in literature survey?	citing (5)
	(b)	What are the essential components of a scientific	pape
		and how should they be presented?	(10)
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1.	(a)	How can ethics be integrated into scientific writer	ting? (5)
	(b)	What are the important considerations in organiz	ing a
		poster display for scientific research?	(5)
ē.	(c)	Discuss some examples of web resources availab	le fo
		literature survey?	(5)
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5.	(a)	What are the methods for identifying, verifying and segregating laboratory waste? (8)
	(b)	How should hazardous chemicals be safely stored and
		used in a laboratory? (7)
6.	(a)	Explain correlation and regression analysis and their applications. (6)
	(L.)	
9	(b)	
		measurement? (5)
	(c)	What is Chemometrics and how is it used in data
		analysis? (4)
7.	(a)	Give some basic aspects of multiple linear regression
		analysis. (4)
	(b)	What are operational amplifiers and how are they used
		in electrochemical instruments? (6)
	(c)	How do you choose and use statistical tests in data
		analysis? (5)