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RCH-001

P.T.O.

Ph.D. IN CHEMISTRY (PHDCHEM)

Term-End Examination June, 2018

00185

RCH-001

RCH-001 : RESEARCH METHODOLOGY

Time: 3 hours Maximum Marks: 100 **Note:** Answer **all** the questions. (a) How are quantitative research designs 1. developed? Briefly describe various methods for generating data for the quantitative research work. 15 (b) Give at least 5 sources of literature review in Chemistry. 5 2. (a) What is meant by Open Educational Resources (OER)? Give examples of some OER initiatives from India. 5 (b) What are the applications of the ORIGIN (software) in scientific research? 5 Discuss the merits and demerits of online 10 courses. (d) Differentiate between 'precision' and 'accuracy' giving suitable examples from Chemistry. 10

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3.	What is meant by FFP in research ethics?	
	Elaborate and illustrate your answer.	20
4.	Describe any five considerations in selecting a research problem and the steps involved in	
	research problem formulation.	20
5.	(a) Discuss the main differences in writing references in ACS and APA styles.	5
	(b) What are the main features of a research paper?	5

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