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**MCH-024**

**M. SC. IN CHEMISTRY/**

**M. SC. IN ANALYTICAL CHEMISTRY**

**(MSCCHEM/MSCANCHEM)**

**Term-End Examination**

**June, 2026**

**MCH-024 : INTRODUCTION TO RESEARCH**

*Time : 1 Hour*

*Maximum Marks : 25*

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**Note :** (i) Attempt any **five** questions from  
those given below.

(ii) All the questions carry equal marks.

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1. List the characteristics of research and  
describe in brief any *one* of these. 5

[ 2 ]

2. Write any *two* purposes of defining a research problem and *three* criteria of a good research problem. 5
3. What is meant by research design ? Describe its factors. 5
4. Differentiate between population and sampling in research. Illustrate your answer. 5
5. Name the *two* main classes of errors in the evaluation of analytical data. Explain any *one* in brief. 5
6. List any *five* general principles of ethics in research. 5

[ 3 ]

7. What is the purpose of writing a research paper ? Explain in the context of chemical research. 5
8. Choose a hypothetical research topic and prepare a sample thesis giving 2-3 lines for each component of the thesis. 5

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