

No. of Printed Pages : 8

Question Booklet Code

**A**

**21ICH2S2P**

Question Booklet  
Serial Number

**M.Sc. II Semester (NEP) Degree Examination, October - 2023**

**INDUSTRIAL CHEMISTRY**

**SEC-2 : Research Methodology**

Time : 1 Hour

Maximum Marks : 30

**INSTRUCTIONS TO CANDIDATES**

1. The Question Paper will be given in the form of a Question Booklet. There will be four/two versions of Question Booklets with Question Booklet Code viz. **A, B, C & D / A & B / A** only.
2. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same Code.
3. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him contains all the 30 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same Code. This is most important.
4. A blank sheet of paper is attached to the Question Booklet. This may be used for Rough Work.
5. **Please read carefully all the instructions on the top of the Answer Sheet before marking your answers.**
6. Each question is provided with four choices **(A), (B), (C)** and **(D)** having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using **Black Ball-Point Pen** in the OMR Answer Sheet.
7. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator.
8. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.
9. First fifteen minutes is provided to fill the general information of the Student. Eg. Student Name, Student ID, etc. in the OMR Answer Sheet
10. Without the instruction of the Invigilator do not open the Question Paper Booklet Seal.

**A**



**1**

**21ICH2S2P**

1. Bibliography means :  
(A) List of books referred (B) Footnote  
(C) Quotations (D) Biography
  
2. Research misconduct stands for :  
(A) Plagiarism (B) Fabrication (C) Falsification (D) All of the above
  
3. The format of thesis writing is the same as in :  
(A) Writing of Seminar representation  
(B) Preparation of research paper/article  
(C) A research dissertation  
(D) Presenting a workshop/conference paper
  
4. Which of the following areas will not meet the criteria for authorship ? Persons making substantial contributions to :  
(A) conception and design, or acquisition of data, or analysis and interpretation of data  
(B) drafting the manuscript or revising it critically for important intellectual content  
(C) extensive edition on the manuscript before submission  
(D) approval of the version of the manuscript to be published
  
5. The conclusions/findings of which type of research cannot be generalized to other situations ?  
(A) Casual Comparative Research  
(B) Historical Research  
(C) Descriptive Research  
(D) Experimental Research
  
6. The presentation of another's work or data as their own, even if the other work or data source is cited occasionally, is called :  
(A) Plagiarism (B) Fraudulence (C) Research (D) Error



7. How is random sampling helpful ?
- (A) Reasonably accurate                      (B) An economical method of data collection  
(C) Free from personal biases              (D) All of the above
8. Which one among the following statements is correct in context to research ?
- (a) Research refers to a series of systematic activity or activities undertaken to find out the solution to a problem.  
(b) It is a systematic, logical and unbiased process wherein verification of hypotheses, data analysis, interpretation and formation of principles can be done.  
(c) It is an intellectual inquiry or quest towards truth.  
(d) It enhances knowledge.
- Select the correct answer from the codes given below :
- (A) (a), (b), (c) and (d)                      (B) (a), (b) and (c)  
(C) (b), (c) and (d)                              (D) (a), (c) and (d)
9. What is the name of the conceptual framework in which the research is carried out ?
- (A) Research hypothesis                      (B) Synopsis of Research  
(C) Research paradigm                        (D) Research design
10. Which one among the following falls under the category of research development ?
- (A) Descriptive Research                      (B) Philosophical Research  
(C) Action Research                            (D) All of the above
11. The main aim of the scientific method in the research field is to \_\_\_\_\_.
- (A) improve data interpretation              (B) eliminate spurious relations  
(C) confirm triangulation                      (D) introduce new variables
12. Can a lecture delivered by academician be reported in a newspaper ?
- (A) Yes    (B) No  
(C) Yes with permission                      (D) Depending on the newspaper



- 13.** Intellectual Property Rights (IPRs) protect the use of information and ideas that are of :
- (A) Social value                      (B) Moral value  
(C) Commercial value              (D) Ethical value
- 14.** Patent can be granted for \_\_\_\_\_.
- (A) process              (B) ideas              (C) product              (D) all of the above
- 15.** Which of the following features are considered as critical in qualitative research ?
- (A) Collecting data with the help of standardized research tools.  
(B) Design sampling with probability sample techniques.  
(C) Collecting data with bottom-up empirical evidence.  
(D) Gathering data with top-down schematic evidence.
- 16.** Patent Act is passed by \_\_\_\_\_.
- (A) State Government              (B) Central/Federal Government  
(C) Both (A) and (B)              (D) Neither (A) Nor (B)
- 17.** Once getting problem identified with its causes, next step involved in :
- (A) Choosing team lead              (B) Identifying solution to problem  
(C) Identifying the problem              (D) All of the above
- 18.** The jurisdiction of registrar of trademark for the purpose of application of trademark be decided on \_\_\_\_\_.
- (A) Place of residence              (B) Principal place of business  
(C) As per registrar will              (D) As per applicants will
- 19.** Authenticity of a research finding is its :
- (A) Validity              (B) Objectivity              (C) Originality              (D) All of the above



20. In the case of infringement of patent the court may award \_\_\_\_\_.
- (A) Damages or account of profits
  - (B) Account of profits with mental agony
  - (C) Damages and account of profits
  - (D) Damages with mental agony
21. Research and Development become the index of development of the country. Which of the following reasons are true with regards to this statement ?
- (A) R&D targets human development
  - (B) R&D can enhance people's standard of living in the country
  - (C) R&D reflects the actual economic and social conditions being prevailed in the country
  - (D) All of the above
22. In a thesis, figures and tables are included in :
- (A) The appendix
  - (B) A separate chapter
  - (C) The concluding chapter
  - (D) The text itself
23. The conceptual framework and background of research which will become the source for formulation of the hypothesis is known as :
- (A) Methodology
  - (B) Review of literature
  - (C) Data analysis
  - (D) None of the above
24. Who has to apply before registrar to be a registered user of trademark ?
- (A) Those who are the proprietor of trademark
  - (B) Proprietor of trademark and the other person who want to be a registered user has to jointly apply.
  - (C) Those who want to be a registered user
  - (D) Police
25. Intellectual Property Rights (IPRs) in India covers :
- (A) Patents
  - (B) Copyrights
  - (C) Trademarks
  - (D) All of the above



- 26.** In the case of copyright the compulsory licence will be granted by \_\_\_\_\_.
- (A) Court (B) State Government  
(C) Copyright Board (D) Minister of the State
- 27.** Circle graphs are used to show :
- (A) How is one part related to other parts ?  
(B) How various sections share in the whole ?  
(C) How is one whole related to another whole ?  
(D) How are various parts related to the whole ?
- 28.** An abstract contains :
- (A) A brief summary of research problems  
(B) A brief summary of research findings of the report  
(C) A brief analysis of data  
(D) A brief interpretation of data
- 29.** Every patent will be valid for \_\_\_\_\_ years from the date of filling of application.
- (A) 20 (B) 15 (C) 60 (D) 25
- 30.** Guidelines for report writing includes :
- (A) Knowledge of the research material  
(B) Organizing of research material  
(C) Rough drafts  
(D) Bibliography, footnotes and head notes

- o O o -



**SPACE FOR ROUGH WORK**



**SPACE FOR ROUGH WORK**

