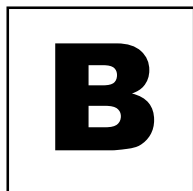




M.Sc. II Semester Degree Examination, Sept./Oct. - 2024



INDUSTRIAL CHEMISTRY

SEC 2 : Research Methodology

(NEP)

Time : 1 Hour

Maximum Marks : 30

Instructions To Candidates:

- (i) *The Question Paper will be given in the form of a Question Booklet. There will be four/two/one versions of Question Booklets with Question Booklet Code viz. **A, B, C & D/A & B/A** Only.*
- (ii) *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.*
- (iii) *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.*
- (iv) *A blank sheet of paper is attached to the Question Booklet. This may be used for Rough Work.*
- (v) **Please read carefully all the instructions on the top of the Answer Sheet before marking your answers.**
- (vi) *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.*
- (vii) *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.*
- (viii) *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.*
- (ix) *First fifteen minutes is provided to fill the general information of the Student. Eg. Student Name, Student ID etc. in the OMR Answer Sheet.*
- (x) *Without the instruction of the Invigilator do not open the Question Paper Booklet Seal.*



1. 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
2. What does the longitudinal research approach actually deal with ?
(A) Long-term research (B) Short-time research
(C) Horizontal research (D) None of the above
3. 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
4. In order to pursue the research, which of the following is priority required ?
(A) Developing a research design
(B) Formulating a research question
(C) Deciding about the data analysis procedure
(D) Formulating a research hypothesis
5. 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
6. The main aim of the scientific method in the research field is to _____.
(A) Improve data interpretation (B) Confirm triangulation
(C) Introduce new variables (D) Eliminate spurious relations
7. Evaluation research is concerned with :
(A) How well are we doing ? (B) Why are we doing ?
(C) What are we doing ? (D) None of the above
8. Which of the following is not the method of Research ?
(A) Survey (B) Historical (C) Observation (D) Philosophical



9. 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.
10. What are the core elements of a dissertation ?
- (A) Introduction; Data Collection; Data Analysis; Conclusions and Recommendations.
 - (B) Executive Summary; Literature Review; Data Gathered; Conclusions; Bibliography.
 - (C) Research Plan; Research Data; Analysis; References
 - (D) Introduction; Literature Review; Research Methodology; Results; Discussions and Conclusions.
11. Who can successfully conduct Research ?
- (A) Someone who is a hard worker
 - (B) Possesses post-graduation degree
 - (C) Has studied research methodology
 - (D) Possesses thinking and reasoning ability
12. Which one among the following statements is false in the context of participatory research ?
- (A) It recognizes knowledge as power
 - (B) It is a collective process of inquiry
 - (C) It emphasizes people as experts
 - (D) Its sole purpose is the production of knowledge
13. Authenticity of a research finding is its :
- (A) Validity
 - (B) Objectivity
 - (C) Originality
 - (D) All of the above
14. IPR in India covers :
- (A) Patents
 - (B) Copyrights
 - (C) Trademarks
 - (D) All of the above
15. Which of the following is not an essential element of report writing ?
- (A) Research methodology
 - (B) Reference
 - (C) Conclusion
 - (D) None of these



16. In a thesis, figures and tables are included in :
- (A) The appendix (B) A separate chapter
(C) The concluding chapter (D) The text itself
17. Which of the following is not the infringement of copyright ?
- (A) Copy the software to another computer by educational institution
(B) Copy the software to another computer by company
(C) Copy the software to another computer
(D) To make backup copies
18. Government may order the non-advertisement of any patent application in the case of invention related to _____.
- (A) Defense Technology (B) Food
(C) Drug (D) Information Technology
19. Once getting problem identified with its causes, next step involved is :
- (A) Choosing team lead (B) Identifying solution to problem
(C) Identifying the problem (D) All of above
20. Patent Act is passed by _____.
- (A) State Government (B) Central/Federal Government
(C) Both (A) & (B) (D) Neither (A) nor (B)
21. International copyright is governed by the _____.
- (A) Paris Convention (B) TRIPS
(C) Berne Convention (D) WTO
22. 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
23. Hypothesis is _____.
- (A) Conclusion drawn from existing literature
(B) Interpretation between variables
(C) Relation between variables
(D) Comparison of assumptions



24. IPR Complete specification gives _____.
- (A) Full description of claim only (B) Full description of royalty
(C) Full description of invention (D) Full decription of application
25. Every patent will be valid for _____ years from the date of filling of application.
- (A) 20 (B) 15 (C) 60 (D) 25
26. Copyright is a _____.
- (A) creation by person of efforts, intellectual and capital
(B) creation by person of the efforts only
(C) creation by negligence of a person
(D) creation by the mental status of a person
27. 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 apply jointly.
(C) Those who want to be a registered user
(D) Police
28. Research conducted to find the solution for an immediate problem is :
- (A) Fundamental research (B) Analytical research
(C) Survey (D) Action research
29. 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
30. Which of the following options are the main tasks of research in modern society ?
- (A) To learn new things
(B) To keep pace with the advancement in knowledge
(C) To systematically examine and critically analyze the investigations/sources with the objective.
(D) All of the above



