



M.Sc. II Semester Degree Examination, September/October - 2022
SEC : INDUSTRIAL CHEMISTRY

Time : 1 Hour

Maximum Marks : 30

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 is the main role of research in education ?
 - (a) To upsurge one's social status.
 - (b) To help an applicant in becoming a renowned educationalist.
 - (c) To increase one's job prospects.
 - (d) To augment one's personal growth.

3. 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.

4. In order to pursue the research, which of the following is priorly 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. 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



7. Research and Development becomes the index of development of the country. Which of the following reasons are true with regard 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 prevailing in the country
 - (d) All the above
8. Which of the following does not correspond to characteristics of research ?
- (a) Research is not passive
 - (b) Research is not a process
 - (c) Research is systematic
 - (d) Research is not problem-oriented
9. 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
10. 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
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. 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 ?
13. Authenticity of a research finding is its :
- (a) Validity
 - (b) Objectivity
 - (c) Originality
 - (d) All of the above
14. What does a good thesis involve ?
- (i) Reducing punctuations as well as grammatical errors to minimalist
 - (ii) Correct reference citations
 - (iii) Consistency in the way of thesis writing
 - (iv) Well defined abstract
- Select the answers from the codes given below :
- (a) (ii), (iii) and (iv)
 - (b) (i), (ii), (iii) and (iv)
 - (c) (i), (ii) and (iii)
 - (d) (i), (ii) and (iv)



15. 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.
16. Bibliography means :
- (a) List of books referred
 - (b) Footnote
 - (c) Quotations
 - (d) Biography
17. In a thesis, figures and tables are included in :
- (a) The appendix
 - (b) A Separate chapter
 - (c) The concluding chapter
 - (d) The text itself
18. 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
19. 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 above
20. Guidelines for report writing includes:
- (a) Knowledge of the research material
 - (b) Organizing of research material
 - (c) Rough drafts
 - (d) Bibliography, footnotes and headnotes
21. 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
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. Intellectual Property Rights (IPRs) in India covers :
- (a) Patents (b) Copyrights (c) Trademarks (d) All the above
24. Which of the following is not a correct statement regarding patent ?
- (a) A patent is a legal protection granted for an innovation that is new, non-obvious and useful.
- (b) The patent grants the patent holder the exclusive right to make use of sell the patented products or process.
- (c) The exclusive purpose of the patent system is to benefit the patent holder.
- (d) The Indian Patent Act, 1970 , was amended and made effective from January 1, 2005.
25. Every patent will be valid for _____ years from the date of filling of application.
- (a) 20 (b) 15 (c) 60 (d) 25
26. Which of the following are grounds for a charge of scientific misconduct ?
- (a) Fabrication or falsification of data
- (b) Plagiarism
- (c) Manipulation of figures that alter the original data
- (d) All of the above
27. 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 editing on the manuscript before submission
- (d) approval of the version of the manuscript to be published
28. 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
29. Research misconduct stands for :
- (a) Plagiarism (b) Fabrication (c) Falsification (d) All the above
30. Which of the following is considered duplicate submission of previously published content ?
- (a) poster previously presented at a meeting
- (b) abstract previously presented at a meeting
- (c) abstract previously published in a meeting program proceedings
- (d) complete manuscript previously published in a meeting program book/ proceedings but only available to meeting participants.

