



M.Sc. III Semester Degree Examination, April/May - 2024

BOTANY

SEC 3 : Research Methodology

(NEP)

Time : 1 Hour

Maximum Marks : 30

1. Sources of Review of literature are :
(A) Preliminary sources (B) Secondary sources
(C) Tertiary sources (D) All of the above
2. 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
3. Research can be conducted by a person who :
(A) Holds a postgraduate degree
(B) Has studied research methodology
(C) Possesses thinking and reasoning ability
(D) Is a hard worker
4. The main characteristic of scientific research is :
(A) Empirical (B) Theoretical (C) Experimental (D) All of the above
5. The research is always -
(A) Verifying the old knowledge
(B) Exploring new knowledge
(C) Filling the gap between knowledge
(D) All of these
6. Research is :
(A) Searching again and again
(B) Finding a solution to any problem
(C) Working in a scientific way to search for the truth of any problem
(D) None of the above



7. Manipulation is always a part of :
(A) Historical research (B) Fundamental research
(C) Descriptive research (D) Experimental research
8. A null hypothesis is :
(A) When there is no difference between the variables
(B) The same as research hypothesis
(C) Subjective in nature
(D) When there is difference between the variables
9. Action research is :
(A) An applied research
(B) A research carried out to solve immediate problems
(C) A longitudinal research
(D) All the above
10. How can the objectivity of the research be enhanced :
(A) Through its impartiality (B) Through its reliability
(C) Through its validity (D) All of these
11. A research problem is **not** feasible only when ?
(A) It is researchable
(B) It is new and adds something to the knowledge
(C) It consists of independent and dependent variables
(D) It has utility and relevance
12. What is the purpose of doing research ?
(A) To identify problem (B) To find the solution
(C) Both (A) and (B) (D) None of these
13. To test null hypothesis, a researcher uses :
(A) T test (B) ANOVA (C) X² (D) Factorial analysis
14. Cite score covers :
(A) All types of publications (B) Only research articles
(C) Only review articles (D) Both (B) and (C)
15. Which is an indexing agency ?
(A) NASA (B) SCOPUS (C) MHRD (D) Turnitin
16. i10 index is an author metric by :
(A) Web of science (B) Scopus
(C) Google scholar (D) LinkedIn



17. Which of the following is the most recent and dependable source of information on a broad scientific topic ?
(A) Research paper (B) Bibliography
(C) Review article (D) New textbook
18. SOPs should be written in a _____ order listing different steps in the accomplishment of an activity.
(A) Sequential (B) Ascending
(C) Chronological (D) Descending
19. Flammable materials, like alcohol, should never be dispensed or used near :
(A) An open door (B) An open flame
(C) Another student (D) A sink
20. Safety in the instructional laboratory is :
(A) The responsibility of the student only
(B) The responsibility of the professor only
(C) A shared responsibility
(D) None of the above
21. Accidents often result from :
(A) Failure to use common sense
(B) Failure to follow instructions
(C) An indifferent attitude
(D) None of the above
22. Examples of personal protective equipment do not include :
(A) Long sleeve shirts (B) Goggle and long pants
(C) Contact lens (D) Lab coats
23. The numerical value of a standard deviation can never be _____.
(A) Negative (B) Zero
(C) Larger than the variance (D) None of the above
24. Which of the following are methods under measures dispersion ?
(A) Standard deviation (B) Mean deviation
(C) Range (D) All of the above
25. The median data 3, 7, 2, 11, 4 and 9 is :
(A) 5 (B) 5.5 (C) 6 (D) 6.5
26. Mode refers to the value within a series that occurs _____ number of times.
(A) Maximum (B) Minimum (C) Zero (D) Infinite



- 27.** What is the mean of the following numbers : 23, 45, 87, 40, 50 ?
(A) 49 (B) 34 (C) 56 (D) None of the above
- 28.** Percentile divides a series into _____.
(A) Ten equal parts (B) Twenty equal parts
(C) Fifty equal parts (D) Hundred equal parts
- 29.** Which of the following diagrams is used to find the value of mode graphically ?
(A) Pie chart (B) Bar graph (C) Histogram (D) None of the above
- 30.** Research can be classified as :
(A) Basic, Applied and Action Research
(B) Quantitative and Qualitative Research
(C) Philosophical, Historical, Survey and Experimental Research
(D) All the above

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