(NO. OF PAGES: 2)

(FOR THE CANDIDATES ADMITTED DURING THE ACADEMIC YEAR 2022 ONLY)

22PBY413

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : MAY-2024

COURSE NAME: M.Sc.-BOTANY **MAXIMUM MARKS: 50**

SEMESTER: IV **TIME : 3 HOURS**

RESEARCH METHODOLOGY

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.
MULTIPLE CHOICE QUESTIONS. **(K1)**

1. The first step of research is _____.
   a) Selecting a problem b) Searching a problem
   c) Finding a problem d) Identifying a problem.
2. Bibliography given in research report_____.
   a) Shows vast knowledge of the researcher b) Has no relevance to research
   c) Helps those interested in further research d) All the above
3. _____ data are collected directly from the field of enquiry for a specific purpose.
   a) Primary data b) Secondary data c) Qualitative data d) Quantitative data
4. To test null hypothesis, a researcher uses _____.
   a) t test b) ANOVA c) X^2 d) factorial analysis
5. What is the alternative name of freeze drying?
   a) Lyophilization b) Cold pasteurization c) Irradiation d) Liposuction

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES **(K2)**

6. Define Research methodology.
7. Infer biblioscape.
8. Indicate the most common measures of central tendency,
9. Expand SPSS.
10. Explain the basic principle of chromatography.

SECTION – B (5 X 3 = 15 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Assess the objectives of the research.

(OR)

b) Find out the feature of a good research design.

12. a) Interpret the steps involved in dissertation writing.

(OR)

b) What is plagiarism? Explain.

(CONTD…….2)

13.a) Describe Chi-square test.

(OR)

b) Examine student ‘t’ test.

14.a) Show the applications of SPSS.

(OR)

b) Describe cluster analysis.

15.a) Give an outline on equipment design of HPLC.

(OR)

b) Interpret the principle of GCMS.

SECTION – C (5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

(K4 (Or) K5)

16. a) Analyze the different types of research.

(OR)

b) Determine the basic principles of experimental design.

17. a) Point out various E- learning tools.

(OR)

b) Construct the format for writing project proposal.

18. a) Discuss the methods of collecting primary data.

(OR)

b) Summarize the measures of central tendency.

19.a) Survey the various tools and applications of Excel.

(OR)

b) What is ANOVA? Outline the principle of ANOVA.

20. a) Justify the principle and applications of PAGE.

(OR)

b) Evaluate the principle and applications of UV-visible spectrophotometer.

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