

Question Booklet Code

**A**

Question Booklet  
Serial Number

**M.Sc. III Semester Degree Examination, April / May - 2023**

**Skill Enhancement Courses (SEC)**

**MICROBIOLOGY**

**Paper No. MB SEC 3 : Research Methodology  
(CBCS)**

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/one versions of Question Booklets with Question Booklet Code viz. **A, B, C & D / A & B / A**.
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.



1. Which of the following variables cannot be expressed in quantitative terms ?  
(A) Socio-economic Status                      (B) Marital Status  
(C) Numerical Aptitude                        (D) Professional Attitude
  
2. One of the following search engine is exclusively meant for scientific information :  
(A) Google                      (B) Yahoo                      (C) SCIRUS                      (D) Altavista
  
3. 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
  
4. A common test in research demands much priority on :  
(A) Reliability              (B) Usability              (C) Objectivity              (D) All of the above
  
5. A complete list of all the sampling units is called :  
(A) Sampling design                              (B) Sampling frame  
(C) Population frame                              (D) Cluster
  
6. A reasoning where we start with certain particular statements and conclude with a universal statement is called :  
(A) Deductive Reasoning  
(B) Inductive Reasoning  
(C) Abnormal Reasoning  
(D) Transcendental Reasoning



7. Which technique is generally followed when the population is finite ?
- (A) Systematic Sampling Technique  
(B) Purposive Sampling Technique  
(C) Area Sampling Technique  
(D) None of the above
8. What type of chart is useful for comparing values over categories ?
- (A) Pie Chart (B) Column Chart (C) Line Chart (D) Dot Graph
9. Plagiarism in research is :
- (A) Creative use of previous data  
(B) Copying unscrupulously and making use of it  
(C) Quoting someone and citing him/her  
(D) Referring to previous data and working over it with new objectives
10. Which of the following is not a "Graphic representation" ?
- (A) Pie Chart (B) Bar Chart (C) Table (D) Histogram
11. Which of the following is not one of the seven major parts to the research report ?
- (A) Results (B) Abstract (C) Method (D) Footnotes
12. One of the methods of logical reasoning process is called :
- (A) Induction (B) Deduction (C) Research (D) Experiment
13. What is the major attribute of Correlation Analysis ?
- (A) Association among variables (B) Difference among variables  
(C) Regression among variables (D) Variations among variables



**14.** Research is :

- (A) Searching again and again
- (B) Finding solution to any problem
- (C) Working in a scientific way to search for truth of any problem
- (D) None of the above

**15.** Where do you provide a step-by-step account of what the researcher and participants did during the research study ?

- (A) Introduction
- (B) Abstract
- (C) Procedure
- (D) Design

**16.** Full form of NCBI :

- (A) National Center for Botany Information
- (B) National Center for Biology Information
- (C) National Center for Biotechnology Information
- (D) None of the above

**17.** Action research means :

- (A) A longitudinal research
- (B) An applied research
- (C) A research initiated to solve an immediate problem
- (D) A research with socioeconomic objective

**18.** A formal document that presents the research objectives, design of achieving these objectives, and the expected outcomes/deliverables of the study is called :

- (A) Research design
- (B) Research proposal
- (C) Research hypothesis
- (D) Research report

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19. Which of the following is the first step in starting the research process ?
- (A) Searching sources of information to locate problem  
(B) Survey of related literature  
(C) Identification of problem  
(D) Searching for solutions to the problem
20. Which of the following is not covered under Intellectual Property Rights ?
- (A) Copyrights (B) Patents (C) Trade Marks (D) Thesaurus
21. \_\_\_\_\_ is a quality of good researcher.
- (A) Scientific temper (B) Age  
(C) Money (D) Time
22. Short summary of technical report is called :
- (A) Article (B) Research abstract  
(C) Publication (D) Guide
23. Conference proceedings are considered as \_\_\_\_\_ documents.
- (A) Conventional (B) Primary (C) Secondary (D) Tertiary
24. A comprehensive full Report of the research process is called :
- (A) Thesis (B) Abstract  
(C) Summary Report (D) Article
25. Which of these is not used to organize a seminar ?
- (A) Oral reports (B) Written reports  
(C) Exchange of Ideas (D) Recommendations



26. Questionnaire is a Method of \_\_\_\_\_.
- (A) Primary data collection            (B) Secondary collection  
(C) (A) and (B) both                    (D) None of the above
27. Bibliography means :
- (A) Foot notes      (B) Quotations      (C) List of books      (D) Biography
28. ANOVA is \_\_\_\_\_.
- (A) A government body which collects social statistics.  
(B) The name of a statistical software package.  
(C) A one-way analysis of variance.  
(D) A two-way analysis of variance.
29. References serve the purpose of :
- (A) Lending authenticity to the given content  
(B) Insightful decision making  
(C) Giving ornamental value of the research  
(D) Exhibiting the great achievement
30. A research paper is a brief report of research work based on :
- (A) Primary Data only  
(B) Secondary Data only  
(C) Both Primary and Secondary Data  
(D) None of the above

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**SPACE FOR ROUGH WORK**

**A**

