

No. of Printed Pages : 7

Sl. No.

Question Booklet Code

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21BOT3S3LP

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

Skill Enhancement Courses (SEC)

BOTANY

Paper No. SEC3 : Research Methodology

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.

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P.T.O.

1. The format of thesis writing is the same as in :
 - (A) Writing a seminar representation
 - (B) Preparation of research paper/article
 - (C) A research dissertation
 - (D) Presenting a workshop/conference paper

2. A statement of the quantitative research question should :
 - (A) Extend the statement of purpose by specifying exactly the questions the researcher will address.
 - (B) Help the researcher in selecting appropriate participants, research methods, measures and materials.
 - (C) Specify the variables of interest.
 - (D) All the above.

3. The population to be sampled is divided into units which are known as :

(A) Sampling frame	(B) Sampling error
(C) Sampling gap	(D) Sampling units

4. Journal which is calculated by dividing the number of current year citations to the source items published in that journal during the previous two years is known as :

(A) Digital factor	(B) Impact factor
(C) Source factor	(D) Journal factor

5. The citation indexes are now available online as :

(A) Web of Science	(B) JCCC
(C) Scopus	(D) EBSCO

6. Random sampling is useful as it is :
 - (A) Reasonably more accurate as compared to other methods
 - (B) Economical in nature
 - (C) Free from personal biases of the investigator
 - (D) All of the above



7. How to judge the depth of any research ?
(A) By research title (B) By research duration
(C) By research objectives (D) By total expenditure on research
8. Empirical research follows which method ?
(A) deductive method (B) Initiative method
(C) Scientific method (D) Inductive method
9. The median is known as :
(A) The middle point (B) The highest number
(C) The range (D) The mean
10. Last stage of the research process is :
(A) Review of literature (B) Report writing
(C) Research design (D) Analysis of data
11. Using a fume hood in the lab can help you from which of the following factors ?
(A) Viruses (B) Bacteria
(C) Fungi (D) Toxic volatiles
12. Sample size is denoted by :
(A) n (B) K (C) L (D) M
13. Where is CSIR-National Botanical Research Institute in India ?
(A) Bengaluru
(B) Lucknow
(C) Hyderabad
(D) Chennai
14. Why do you need to review the existing literature ?
(A) To make sure you have a long list of references
(B) Because without it, you could never reach the required word-count
(C) To find out what is already known about your area of interest
(D) To help in your general studying



15. Fundamental research is otherwise called :
- (A) Basic research (B) Pure research
(C) Both (A) and (B) (D) None of the above
16. Excel is a _____ program developed by Microsoft.
- (A) Spreadsheet (B) Document
(C) Data management (D) All of the above
17. Good Laboratory Practice (GLP) is a method employed in a laboratory setting to :
- (A) Prevent contaminants (B) Prevent accidents
(C) Prevent Injuries (D) All of the above
18. Which of the following academic identities are integrated with IRINS ?
- (A) ORCID ID and SCOPUS ID
(B) Microsoft Academic ID and Google Scholar ID
(C) All of the above
(D) None of the above
19. “Web of Science” is :
- (A) A Citation Index (B) A Bibliography
(C) An abstracting service (D) All of the above
20. Action research can be understood as :
- (A) A longitudinal research
(B) An applied research
(C) A kind of research being carried out to solve a specific problem
(D) All of the above
21. Which kind of gloves should you wear in a lab ?
- (A) Nitrile gloves
(B) Latex gloves
(C) Depending on the handled chemicals
(D) None of the above



- 22.** 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
- 23.** Stages of Experimental Research are :
- (A) Analysis and interpretation of results
 - (B) Administration of the experiments
 - (C) Selection of the setting
 - (D) Operationalisation of variables
- 24.** Descriptive research includes :
- (A) Fact-finding enquiry on social events and system
 - (B) Hypothesis testing
 - (C) Ex-post facto research
 - (D) All of the above
- 25.** What is the main purpose of wearing goggles and other eye protection devises ?
- (A) To prevent glassware
 - (B) Heat or chemicals from coming in contact with your eyes
 - (C) To reduce eye strain
 - (D) To improve vision
- 26.** The most frequently occurring number in a set of values is called :
- (A) Mean
 - (B) Median
 - (C) Mode
 - (D) Range
- 27.** Which of the following substances can be poured safely down the drain ?
- (A) PBS
 - (B) Halogenated hydrocarbons
 - (C) Water-reactive materials
 - (D) Radioactive chemicals



28. Which of the following are known as the types of research data ?
- (A) Organised data and unorganized data
 - (B) Qualitative data and quantitative data
 - (C) Processed data and unprocessed data
 - (D) None of the above
29. What is the opposite of a variable ?
- (A) Constant
 - (B) A random variable
 - (C) A dependent variable
 - (D) A data set
30. Statistics is a backbone of :
- (A) Computer
 - (B) Mathematics
 - (C) Research
 - (D) Economics

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SPACE FOR ROUGH WORK

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