# TILAK MAHARASHTRAVIDYAPEETH, PUNE
## M.A. YOGA
## EXAMINATION : APRIL– 2023
## THIRD SEMESTER
### Sub. : Research Methodology and Biostatics (303)

| Date: 20/4/2023 | Total marks: 60 | Time: 2.00pm to 4.30 pm |
|---|---|---|

**Instructions:**
1) All questions are compulsory.
2) Figures to the right indicate full marks.

**Q. 1**     **Multiple choice questions.**                        **(10)**

1. …….. research is also called as basic research.
   - a) Pure
   - b) Applied
   - c) Both
   - d) None

2. When population can be counted, it is said to be …….
   - a) finite
   - b) infinite
   - c) sample
   - d) target

3. Random sampling is a method of …….
   - a) sampling
   - b) graphs
   - c) objectives
   - d) methodology

4. Mean is ……..
   - a) average
   - b) percentage
   - c) quarter
   - d) percentile

5. ………. is known as father of Statistics.
   - a) David M. Eddy
   - b) Ronald Fisher
   - c) Newton
   - d) Alexander

6. ……. research is called non-numerical research.
   - a) Qualitative
   - b) Quantitative
   - c) Both a & b
   - d) None

7. ………… is diagrammatical type of representation of data.
   - a) Pictogram
   - b) Cartogram
   - c) One dimensional diagram
   - d) All of the above

8. ……….. are sampling methods.
   - a) Probability
   - b) Non-probability
   - c) Both a & b
   - d) None of these

9. Convenience and consecutive sampling are ………..
   - a) Probability sampling
   - b) Non-probability sampling
   - c) Both a & b
   - d) None of these

10. 'Ha' indicates
    - a) null hypothesis
    - b) alternative hypothesis
    - c) Both a & b
    - d) None of these

**Q. 2   Short Answer questions (Any Four)**                                           **(20)**

1. Definition of research and write about importance of research in yoga.

2. Write about pure research and applied research.

3. Write about hypothesis.

4. Write about Qualitative and Quantitative research.

5. Write about types of data.

6. Write about research process in short.


**Q. 3   Long answer question   (Any Two)**                                            **(30)**

1. What is data and write about presentation of data.

2. Write about 'Ethics' in research.

3. Write in detail about sampling methods and measures of central tendency.

————