Total No. of Printed Pages: 2

SUBJECT CODE NO: - FF-6640
FACULTY OF SCIENCE AND TECHNOLOGY
M.Sc. (Sem-III) (Zoology)
Examination January-2023
Elective Group A - Biostatistics ZOO-304

[Time: 3:00 Hours]   [Max. Marks: 80]

Please check whether you have got the right question paper.

N. B
1) The question paper is divided into two parts
2) Part 'A' is compulsory
3) Attempt any five question from part 'B'
4) draw a neat labelled diagram whenever necessary

PART 'A'

Q1   Multiple choice questions [Each questions 20 carry 2 marks]   **20**

1. The term biostatistics is also known as –
   a) Biometry   b) Bionemerology   c) Statistics in biology   d) None of these

2. Height of students in a class is a-
   a) Quantitative variables   c) Discrete variables
   b) Continuous variables   d) None of above

3. Mean is also called as-
   a) Range   b) Average   c) Median   d) Mode

4. Which of the following is a branch of statistics?
   a) Industry statistics   c) Inferential statistics
   b) Descriptive statistics   d) Both B & C

5. Quantity or characteristics may vary from one individual to another is called as-
   a) Static group   b) Dynamic group   c) Variable   d) None of these

6. Who is the father of microbiology?
   a) Robert Koch   c) Antoni Van Leeuwenhoek
   b) Edwin John B   d) All of these

7. Food preservation involves-
   a) Increasing shelf life of food
   b) Ensuring safety for human consumption
   c) Both A & B
   d) None

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8. What are the flocs?
   a) Masses of algae   c) Masses of fungi
   b) Masses of animals   d) Masses of bacteria

9. Write the full form of BOD?
   a) Biological oxygen deficiency   c) Biochemical oxygen demand
   b) Biological disease   d) None of the above

10. The approximate size of bacterial cell?
    a) 2 mm in diameter   c) 1 mm in diameter
    b) 2 μm in diameter   d) 0.5 to 1.0 μm in meter

PART 'B'

Q2 Define probably? Describe types of probability & their distribution   **12**

Q3 Explain T-test with the suitable example   **12**

Q4 Define correlation? Describe Pearson correlation coefficient in detail   **12**

Q5 Explain role of microorganism in food spoilage   **12**

Q6 Give an account of glycolysis and anaerobic oxidation   **12**

Q7 Describe the concept of synthetic biology & bio-metallic production   **12**

Q8 Write notes on (Any two)   **12**
   a) Fisher exact test
   b) Linear regression
   c) Fermentation
   d) Food borne disease