

Roll No. ....

Total Printed Pages - 8

**F- 535**

**M.Sc. (Second Semester)  
EXAMINATION, May - June, 2022**

**Zoology**

**Paper Third**

**(Quantitative Biology and Computer Application)**

*Time : Three Hours]*

*[Maximum Marks:80*

**Note: Attempt all sections as directed.**

**Section - A**

**(Objective/Multiple Type Questions)**

**(1 mark each)**

**Note : Attempt all questions.**

**Choose the correct answer.**

1. Which device use to enter the data
- (A) Output device
  - (B) Input device
  - (C) Both (A) and (B)
  - (D) None of the above

**P.T.O.**

[2]

2. Which one is not used as pointing device
- (A) Digitizer
  - (B) Mouse
  - (C) Joysticks
  - (D) All the above
3. Who create PASCAL language.
- (A) Basic Pascal
  - (B) Donald Knuth
  - (C) Niklaus Wirt
  - (D) None of the above
4. In which language UNIX written
- (A) C#
  - (B) C
  - (C) C++
  - (D) All the above
5. LSB is
- (A) Low significant bit
  - (B) Least significant bit
  - (C) Less significant bit
  - (D) All of the above

**F- 535**

[3]

6. In Ms office a feature than used for all capital or all small letters is-
- (A) Change case
  - (B) Change word
  - (C) Change letter
  - (D) None of the above
7. CTRL + Y key is used for -
- (A) Select all
  - (B) Cut
  - (C) Paste
  - (D) Find a particular word.
8. In MS Word Text styling feature is
- (A) Word Art
  - (B) Word Color
  - (C) Word Fill
  - (D) None of the above
9. Biostatistical graphs one prepared in
- (A) Note Pad
  - (B) Power Point
  - (C) Photoshop
  - (D) Excel

F- 535

P.T.O.

[4]

10. By using Power-Point we prepare:
- (A) Presentation
  - (B) Excel-sheet
  - (C) (A) and (B)
  - (D) None of the above
11. The measures of central tendency is -
- (A) Mean
  - (B) Median
  - (C) Mode
  - (D) All of the above
12. Null hypothesis is written as-
- (A)  $H_0$
  - (B)  $H_1$
  - (C) Both (A) and (B)
  - (D) None of the above
13. What is N -
- (A) Null Hypothesis
  - (B) Alternative Hypothesis
  - (C) Degree of freedom
  - (D) All the above

F- 535

[5]

14. What is the arithmetic mean of 8, 10, 20, 22, 39 and 18

- (A) 19
- (B) 19.5
- (C) 19.1
- (D) 19.4

15. What is the median of 6, 8, 12, 9, 4, 5, 7

- (A) 6
- (B) 7
- (C) 8
- (D) 5

16. Chi - square test is:

- (A) Parametric test
- (B) Non - Parametric test
- (C) Both (A) and (B)
- (D) None of the above

17. What do you mean by X on Y in regression:

- (A) X variable depends upon Y variable
- (B) Y variable depends upon X variable
- (C) Both (A) and (B)
- (D) None of the above

F-535

P.T.O.

[6]

18. Relation between body weight and IQ shows:

- (A) Positive correlation
- (B) Negative correlation
- (C) Both (A) and (B)
- (D) Zero correlation

19. What critical value is -

- (A) Calculated value
- (B) Critical value
- (C) Both (A) and (B)
- (D) None of the above

20. A bag contains 2 pink and 3 red balls. A ball is drawn at random. The probability of drawing pink ball is:

- (A)  $\frac{3}{5}$
- (B)  $\frac{2}{5}$
- (C)  $\frac{1}{5}$
- (D)  $\frac{0}{5}$

### Section - B

#### (Very Short Answer Type Questions)

(2 marks each)

**Note : Attempt all questions.**

1. Draw a well label diagram of joystick.
2. What is super computer.
3. Write the short key for
  - (A) Select all
  - (B) Bold
  - (C) Copy the text
  - (D) Paste the text

F-535

[7]

4. What is MS Word and how to create MS Word document.
5. Write the definition and formula of standard deviation.
6. Write the full form of:
  - (A)  $\bar{X}$
  - (B)  $\mu$
  - (C)  $r$
  - (D)  $\Sigma$
7. Why 't' test called the student 't' test?
8. What do you mean by one way and two way ANOVA.

**Section - C**

**(Short Answer Type Questions)**

**(3 marks each)**

**Note : Attempt all questions.**

1. Describe the structure of mouse with label diagram.
2. Write the applications of software.
3. Describe the flow-chart with label diagram.
4. Write any six applications that are used in biostatistics.
5. Write the definition and formula of median and mode.
6. Write the rules for tabulation.
7. Explain the perfect positive and perfect negative correlation.
8. What do you mean by probability. Write its definition and formula.

F-535

P.T.O.

[8]

**Section - D**

**(Long Answer Type Questions)**

**(5 marks each)**

**Note : Attempt all questions.**

1. Write the structure and implementation of CPU.

**OR**

Explain binary number system.

2. Explain working of power point and write its application.

**OR**

How the excel sheet forms? Write its uses.

3. Find out the arithmetic mean from given data-

Opercular Activity -

02, 16, 80, 70, 79, 20, 39, 30, 45, 40, 65, 50, 49

Number of fist -

3, 4, 2, 5, 1, 7, 1, 7, 5, 3, 2, 2, 1

**OR**

Describe the frequency polygon, frequency curve and pie diagram.

4. Write the common applications for Chi - square test.

**OR**

Calculate the correlation coefficient from given data-

Body wt in kg. - 52, 56, 60, 58, 55

Height in feet. - 5.4, 5.5, 5.2, 5.3, 5.6

F-535