

G-1/191/22

Roll No.

I Semester Examination, January 2022

M.Sc.

ZOOLOGY

Paper III

Quantitative Biology (Computer and Biostatistics)

Time : 3 Hours]

[Max. Marks : 80

Note : All questions are compulsory. Question Paper comprises of 3 Sections. Section A is objective type/multiple choice questions with no internal choice. Section B is short answer type with internal choice. Section C is long answer type with internal choice.

SECTION A

1×8=8

(Objective Type/Multiple Choice Questions)

Choose the correct answer :

1. Which can be used for quick access to commonly used commands and tools ?
- (a) Status bar (b) Tool bar
(c) Menu bar (d) Title bar

P.T.O.

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2. The value of radix in binary number system is ?
- (a) 2 (b) 8
(c) 10 (d) 1
3. This software is a plagiarism checker :
- (a) Sound forge (b) Grammarly
(c) Turnitin (d) Fast pencil
4. An example of an “internet search” engine is :
- (a) Windows (b) LINUX
(c) Yahoo (d) MS-Word
5. Find the mean of the given set of numbers :
- 4, 6, 3, 8, 5, 2, 9, 4
- (a) 6.5 (b) 5.2
(c) 5 (d) 6
6. If two different dice are rolled together the probability of getting an even number on both dice is :
- (a) $\frac{1}{36}$ (b) $\frac{1}{2}$
(c) $\frac{1}{6}$ (d) $\frac{1}{4}$

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7. The coefficient of correlation when coefficient of regression are 0.2 and 1.8 is :

- (a) 0.36 (b) 0.2
(c) 0.6 (d) 0.9

8. The heights in cm of a group of first year biological students were recorded. The variance of these heights was subsequently calculated. The unit of measurement for this variance is :

- (a) cm (b) cm²
(c) m (d) m²

SECTION B

6×4=24

(Short Answer Type Questions)

Note : Answer the following questions in **250** words.

1. Explain Decimal system.

Or

Describe CPU.

2. Write down the different steps for creating charts in Excel program.

Or

Write short note on Webmail.

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P.T.O.

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3. Explain the rules for making tables.

Or

Describe the standard deviation by direct method.

4. Explain the significance of correlation.

Or

Explain null hypothesis.

SECTION C

12×4=48

(Long Answer Type Questions)

Note : Answer the following questions in **500** words.

1. Describe the basic knowledge of software.

Or

Explain Hexadecimal system.

2. Describe the MS-PowerPoint.

Or

Explain different types of search engines.

3. Oxygen consumption of 8 fishes was recorded as : 35, 44, 38, 36, 39, 40, 42 and 41 CC/100 ml/hour. Find median from the given data.

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Or

Explain pictogram with suitable example and its uses.

4. Define X^2 and mention its formula. What do you mean by goodness of fit and contingency table ?

Or

What do you mean by the following terms simple event, mixed event, Null event, sure event, equally likely event.

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