

OR

Total No. of Printed Pages:3

SUBJECT CODE NO: B-2010
FACULTY OF SCIENCE
B.Sc. T.Y (Sem-VI) Examination March/April 2018
Botany Paper- XX
D Bioinformatics

[Time: 1:30 Hours]

[Max. Marks: 50]

N.B

Please check whether you have got the right question paper.

- i. Attempt all questions.
- ii. Draw neat and well labelled diagram wherever necessary.

Q.1 Describe in detail line chart and histogram methods of data presentation. 20

OR

Explain in detail standard deviation? Add a note on standard error.

Q.2 Define internet networking technology by using search engines like Yahoo and Google. 20

OR

Write short note on (any four) of the following

- a) Sampling
- b) Types of data
- c) Storage devices
- d) MS – access
- e) Explorer
- f) Bioperl

Q.3 Multiple choice questions. 10

- 1) Biostatistic is also called-----.
- ☒ a) Biometrie
- b) Biogold
- c) Biocalculation
- d) Bioinformatics

- 2) Who is called father of biostatic
- a) Fisher pearson
 - ✓ b) Francis Galton
 - c) Francis Becon
 - d) None of these
- 3) The median of a series of numerical value is -----.
- a) Number
 - ✓ b) Equal average
 - c) A graph
 - d) Frequency table
- 4) A frequency polygon is -----.
- ✓ a) A scattering of series of value
 - b) A graph broken line
 - c) Contain more information
 - d) Contain less information.
- 5) Hardware contain some ----- carrying different signals.
- a) Current
 - b) PC
 - c) Interrupts
 - d) Lines
- 6) Key word also called as -----.
- a) Special word
 - ✓ b) Reserve word
 - c) Symbols
 - d) None of these
- 7) Standard deviation is the square of -----.
- ✓ a) Variance
 - b) Mode
 - c) Standard error
 - d) Mean
- 8) Assembly language is converted into low level by software.
- a) Compiles
 - b) Assembler
 - c) Linker
 - d) Loader

Total No. of Printed Pages:02

SUBJECT CODE NO:- L-2024
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. T.Y. (Sem-VI) Examination March/April 2019
Botany Paper- XX
(D) Bioinformatics

[Time: 1:30 Hours]

[Max.Marks: 50]

N.B

Please check whether you have got the right question paper.

- 1) Attempt all questions.
- 2) Draw neat and well labeled diagrams whenever necessary.

- Q.1 Describe in detail bar chart and pie diagram method of data presentation. 20
 OR
 Explain in detail measures of central tendency. Add a note on its applications. 20
- Q.2 What is application software? Explain types with examples. 20
 OR
 Write short notes on any four of the following 20
- a) Sample techniques
 - b) Histogram and polygon
 - c) Storage devices
 - d) Probability
 - e) Search engine
 - f) Linux
- Q.3 Multiple Choice questions: 10
- 1) What is the median of the sample 5, 5, 11, 9, 8, 5, 8?
 a. 5 b. 6 c. 8 d. 9
 - 2) The observation which occurs most frequently in a sample is the
 a. Median b. Mean deviation c. Standard deviation d. Mode
 - 3) The suitable average for qualitative data is
 a. Mean b. Mode c. Median d. Geometric mean
 - 4) Karl Pearson in 1990 has rediscovered the following test
 a. T-test b. Chi-square c. F-test d. Standard error
 - 5) _____ is an electronic hardware that transmits computer signal through a telephone line.
 a. Modem b. Model c. Mouse d. Fax

- 6) A microprocessor unit, a memory unit and an input/ output unit form a _____.
a. CPU b. Compiler c. Micro computer d. ALU
- 7) In power point, each page is called _____.
a. A work sheet b. A slide c. A text page d. A presentation
- 8) What does HTTP stand for
a. Hypertext Transfer protocol b. Head tail transfer protocol
c. Hyper text transfer plotter d. Hypertext texting protocol
- 9) _____ are software which is used to do a particular task.
a. Operating system b. Program c. Data d. Software
- 10) Collection of the essential data in bio information is known as _____.
a. Files b. Directory c. Error d. Data base

Total No. of Printed Pages: 2

SUBJECT CODE NO:- B-2060
FACULTY OF SCIENCE & TECHNOLOGY
B.Sc. T.Y. (Sem-VI)
Examination November/December- 2022
Botany Paper- XX
Bioinformatics

[Time: 1:30 Hours]

[Max. Marks:50]

Please check whether you have got the right question paper.

N.B

1. Attempt all questions.
2. Draw neat and well-labelled diagrams wherever necessary.

Q.1 Describe in detail line chart and histogram method of data presentation. 20

OR

Explain in detail measures of central tendency add a note on mean & mode as a tendency.

Q.2 What is software? Add a note MSDOS and Linux. 20

OR

Write short notes on (any four) of the following.

- a) Application of bioinformatics
- b) Probability
- c) Standard error
- d) T- test
- e) CPU
- f) Google

Q.3 Multiple choice questions. 10

1. The term Biometry was coined by _____

- | | |
|-----------------|-------------------|
| a) Fisher | c) Francis Galton |
| b) Karl Pearson | d) Walter Weldon |

2. A frequency polygon is _____

- | | |
|------------------------|-------------------------------------|
| a) A graph broken line | c) A graph contain less information |
| b) Scattering of value | d) None of these |

3. Circle divide into sectors proportional to frequency to items shown is called ____
 - a) Bar chart
 - b) Pie chart
 - c) Histogram
 - d) Frequency polygon
4. The value recorder in an experiment are called ____
 - a) Sample
 - b) Variable
 - c) Data
 - d) Deviations
5. The media of a series of numerical value is ____
 - a) Mean
 - b) Mode
 - c) Median
 - d) File
6. Standard deviation is the square of ____
 - a) Variation
 - b) Mean
 - c) Mode
 - d) Standard error
7. Chi- square is zero when ____ expected.
 - a) Less than observed frequency
 - b) Greater than frequency
 - c) Double than observed frequency
 - d) Frequency equal to observed frequency
8. LAN means ____
 - a) Local aware network
 - b) Local area network
 - c) Linear area network
 - d) Linear area netweb
9. Primary memory is also called as ____
 - a) Semiconductor
 - b) Magnetic memory
 - c) Optical memory
 - d) None of these
10. The operating system manages ____
 - a) Memory
 - b) Processor
 - c) Disc & I/C devices
 - d) All of above

Total No. of Printed Pages:2

SUBJECT CODE NO:- 2060
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. T.Y (Sem-VI)
Examination March/April-2022 (To Be Held In June/July-2022)
Botany Paper- XX
(D) Bioinformatics

[Time: 1:53 Hours]

[Max.Marks:50]

- N.B Please check whether you have got the right question paper.
- 1) Attempt all questions.
 - 2) Draw neat and well labelled diagram wherever necessary.

Q.1 Give in details the different ways of data Presentations along with diagrams. 20

OR

What is standard deviation? Explain the methods of calculating standard deviation.

Q.2 What is web browsing and Servers. 20

OR

Write short note on (any four) of the following.

- a) Applications of Bioinformatics
- b) Mean and Median
- c) Input and Output devices
- d) Chi-square
- e) Netscape Navigator
- f) File and Folder

Q.3 Multiple Choice Questions 10

1. Histogram is a mean of representing data in the form of _____.
 (a) Bar (b) Line
 (c) Circle (d) Picture
2. Bioinformatics is also known as _____.
 a) Programming
 b) Computational Biology
 c) Software development
 d) None of these
3. _____ is the middle value in the list of numbers
 (a) median (b) mean
 (c) mode (d) None of these

4. What is the mean of 8,5, 9, 11, 3, 6.
(a) 8 (b) 11
(c) 7 (d) 10
5. Pen drive is a _____
(a) CPU (b) Input device
(c) Output device (d) Storage device
6. Which of the following is used to explore the internet.
(a) Spread Sheet (b) Browser
(c) Clipboard (d) Draw
7. What is the full form of LAN
a) Local Access Network
b) Large Area Network
c) Local Area Network
d) Local Access Netline
8. What is Wi-Fi.
a) Wireless fidelity
b) Wireless feasibility
c) World wide fidelity
d) World wide facility
9. Google is a _____
a) Program
b) Search engine
c) RAM
d) Matrix
10. Literature data base include _____
a) MEDLINE and PUB MED
b) MEDLINE and PDB
c) PUBMED and PDB
d) MEDLINE and PDS

Total No. of Printed Pages: 2

SUBJECT CODE NO: - Y-2060
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. T.Y Sem-VI
Examination March / April - 2023
Bioinformatics

[Time: 1:30 Hours]**[Max. Marks: 50]**

Please check whether you have got the right question paper.

N. B

1. Attempt all questions.
2. Draw neat and well-labelled diagrams whenever necessary.

Q1 Describe in detail ogive curve and polygon methods of data presentation. 20

OR

Explain in detail t-test and chi-square test.

Q2 Explain types of computer and add a note on storage devices. 20

OR

Write short notes on (any four) of the following.

- a) Sampling technique
- b) Mean deviation
- c) Output devices
- d) Standard error
- e) Word processor
- f) Bioperl

Q3 Multiple choice questions. 10

- 1) Biostatistics is also called -----
 - a) Bio gold
 - b) Bio calculation
 - c) Biometrics
 - d) Bioinformatics
- 2) Frequency curve is -----
 - a) Inverted bell shaped
 - b) Parallel bell shaped
 - c) Perpendicular shape
 - d) Line shaped
- 3) Line diagram in the form of ----- line.
 - a) Bar
 - b) Pie
 - c) vertical
 - d) rectangle

- 4) Flower colour is a -----
 - a) Quantitive variable
 - b) Quantitative variable
 - c) Obsolute variable
 - d) Continuous variable
- 5) CPU has a number of ----- register.
 - a) Store
 - b) hidden
 - c) switch
 - d) address
- 6) Which of following is not a measure of central location
 - a) Mean
 - b) median
 - c) variance
 - d) mode
- 7) Number of fruits in a tree is a -----
 - a) Qualitative arrange
 - b) Discrete variable
 - c) Obsolute variable
 - d) Discontinuous variable
- 8) Assembly language is converted into low level by software
 - a) Compiler
 - b) linker
 - c) assembler
 - d) loader
- 9) Key word also called as -----
 - a) Special words
 - b) Reserve words
 - c) Symbols
 - d) None of these
- 10) WAN is -----
 - a) Wise area network
 - b) Wise Asia network
 - c) Wide area network
 - d) Wide Africa network

Total No. of Printed Pages : 2

SUBJECT CODE NO: - B-2060
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. T.Y (SEM-VI) Pattern-2013
Examination November / December 2023
Botany Paper- XX Bioinformatics

[Time: 1:30 Hours]

[Max. Marks : 50]

Please check whether you have got the right question paper.

N. B 1) Attempt all Questions

2) Draw neat and well labelled diagrams whenever necessary.

Q.1 Describe in detail bar chart and pie diagram method of data presentation.

20

OR

Explain in detail standard deviation and add a note on standard error.

Q.2 What is internet networking technology by using google and yahoo.

20

OR

Write short note on (any four) of following.

- | | |
|--------------|-------------------|
| (a) Mode | (b) Types of data |
| (c) sampling | (d) Probability |
| (e) PUBMED | (f) html document |

Q.3 Multiple choice questions.

10

(1) Who is regarded as the father of Biostatistics.

- | | |
|--------------------|-------------------|
| (a) Karl person | (b) Francis Becon |
| (c) francis Balton | (d) Fisher |

(2) the suitable average for qualitative data is -----.

- | | |
|------------|--------------------|
| (a) Mean | (b) Mode |
| (c) Median | (d) Geometric mean |

(3) The observation which occurs most frequently in sample -----.

- | | |
|--------------------|------------------------|
| (a) Mode | (b) Mean |
| (c) Mean deviation | (d) Standard deviation |

(4) In biostatics group of individuals taken for study by called -----.

- | | |
|-----------|----------------|
| (a) group | (b) population |
| (c) Block | (d) Flock |

- (5) Standard deviation is the square of -----.
- (a) Variance (b) Mode
(c) Standard error (d) Mean
- (6) Most frequently occurring value of data set is called -----.
- (a) Mean (b) Mode
(c) Median (d) Standard deviation
- (7) The median of a series of numerical value is ____
- (a) Number (b) equal average
(c) a graph (d) A frequency table
- (8) In power point, each page is called as -----
- (a) A slide (b) A text page
(c) A worksheet (d) A presentation
- (9) Dynamic directory approach is illustrated by the department ----- of Arpanet.
- (a) Forestry (b) home
(c) Defense (d) Rural
- (10) Processed data is called as -----.
- (a) Data (b) information
(c) Data item (d) none of above