

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Bio_401

BIOSTATISTICS

Quiz No.1 Fall 2022

Full Solution

Total Marks: 10

Due date: 18/12/2022



***"Don't Stop When you Tired,
Stop When you Done"***

0304-4756496

MUHAMMAD ZAMAN 😊

For Paid Quiz contact on 03044756496

_____ is the art and science of drawing inferences/ conclusions about a population of interest.

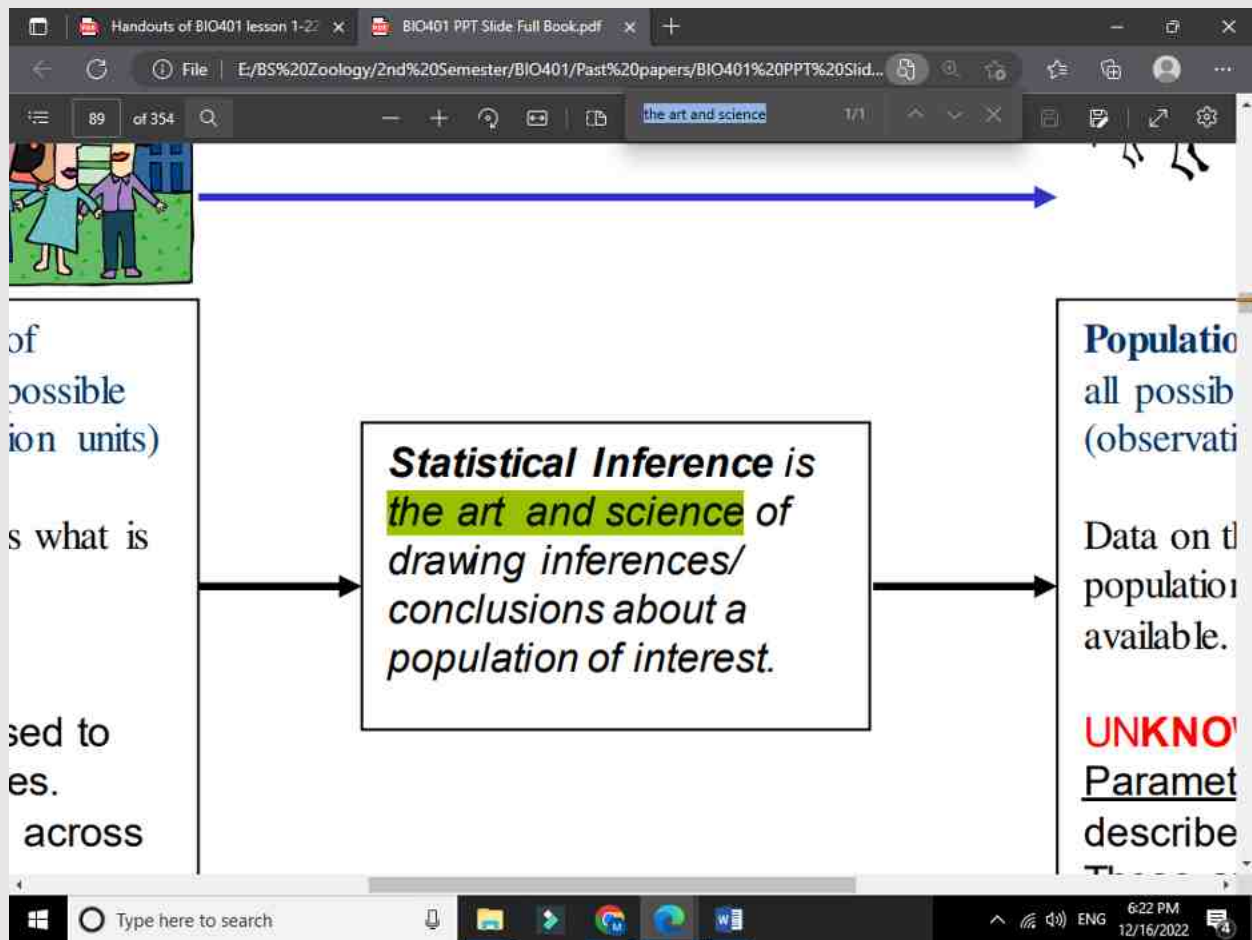
The screenshot shows a web browser window with a single tab titled "Quiz". The address bar displays the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=45623235-e709-4a10-90f6-3e4cef67675a>. The page content includes:

- Question # 1 of 10 (Start time: 06:21:47 PM, 16 December 2022)
- Total Marks: 1
- A text input field containing the question: "_____ is the art and science of drawing inferences/ conclusions about a population of interest."
- A section titled "Select the correct option" with four radio button options:
 - ☐ Population
 - ☐ Sample
 - ☒ Statistical interference
 - ☐ Inferential population
- A blue button at the bottom right that says "Click to Save Answer & Move to Next Question".

The Windows taskbar is visible at the bottom, showing the search bar, taskbar icons, and system tray with the time 6:22 PM and date 12/16/2022.

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Probability for a continuous random variable to assume any particular value is

The screenshot shows a web browser window with a quiz interface. The browser's address bar displays the URL <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=267bd952-f7ce-4f60-8ecd-d70073bb8317>. The page title is "Probability for a continuous random variable". The question is labeled "Question # 2 of 10" with a start time of "06:22:32 PM, 16 December 2022" and a "Total Marks: 1" indicator. The question text is "Probability for a continuous random variable to assume any particular value is". Below the question is a section titled "Select the correct option" with four radio button choices: "1", "-1", "0-1", and "0". The "0" option is selected. A blue button at the bottom right of the question area says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the screen.

Question # 2 of 10 (Start time: 06:22:32 PM, 16 December 2022) Total Marks: 1

Probability for a continuous random variable to assume any particular value is .

Select the correct option

- ☐ 1
- ☐ -1
- ☐ 0-1
- ☒ 0

Click to Save Answer & Move to Next Question

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Probability for a continuous random variable to assume any partici

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0

According to 2 sources

Curve is above x-axis
Area = 1

A continuous random variable can be defined as a random variable that can take on an infinite number of possible values. Due to this, the probability that a continuous random variable will take on an exact value is 0.

Thus, the probability that a continuous random variable takes any specific value is equal to 0. Why is the probability that a continuous random variable equals a specific number zero? A continuous random variable can realise an infinite count...

Continuous Random Variabl...
cuemath.com

What is the probability that ...
short-facts.com

Feedback

People also ask

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6:23 PM
12/16/2022

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We need sampling for _____ purpose

Quiz

We need sampling for _____ pl. x +

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=6b629fd1-2d02-49e4-8cc9-d9d7d87b8270

Question # 3 of 10 (Start time: 06:23:44 PM, 16 December 2022) Total Marks: 1

We need sampling for _____ purpose

Select the correct option

☐	Speed
☐	Economy
☒	All
☐	Accuracy

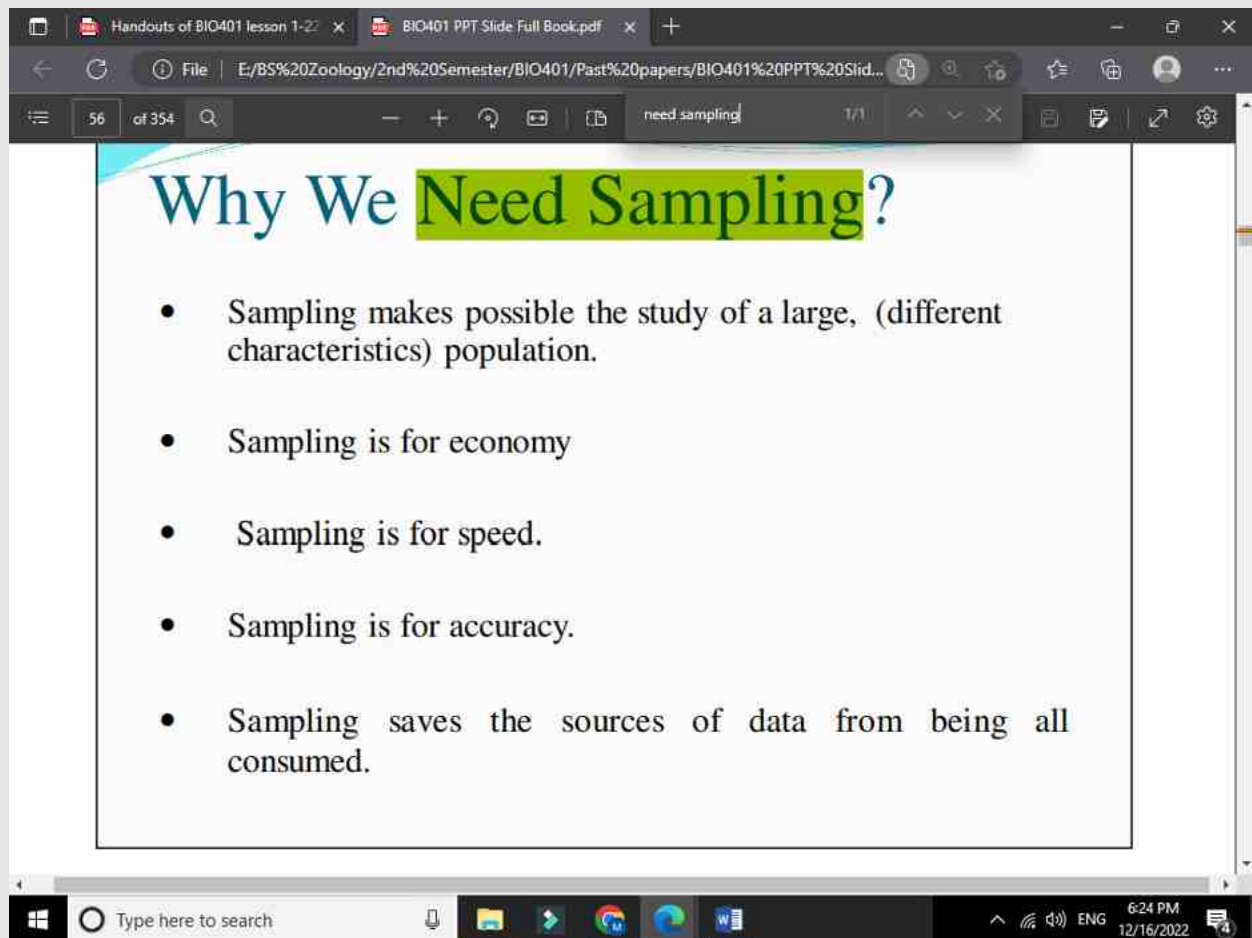
Click to Save Answer & Move to Next Question

Type here to search

6:24 PM 12/16/2022

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For Paid Quiz contact on 03044756496



The screenshot shows a presentation slide titled "Why We Need Sampling?". The title is in a large, blue, serif font. The word "Need" is highlighted in a green box. Below the title is a bulleted list of five points. The slide is displayed in a web browser window with the address bar showing a file path. The Windows taskbar is visible at the bottom.

Handouts of BIO401 lesson 1-22 x BIO401 PPT Slide Full Book.pdf x

File | E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid... need sampling 1/1

Why We Need Sampling?

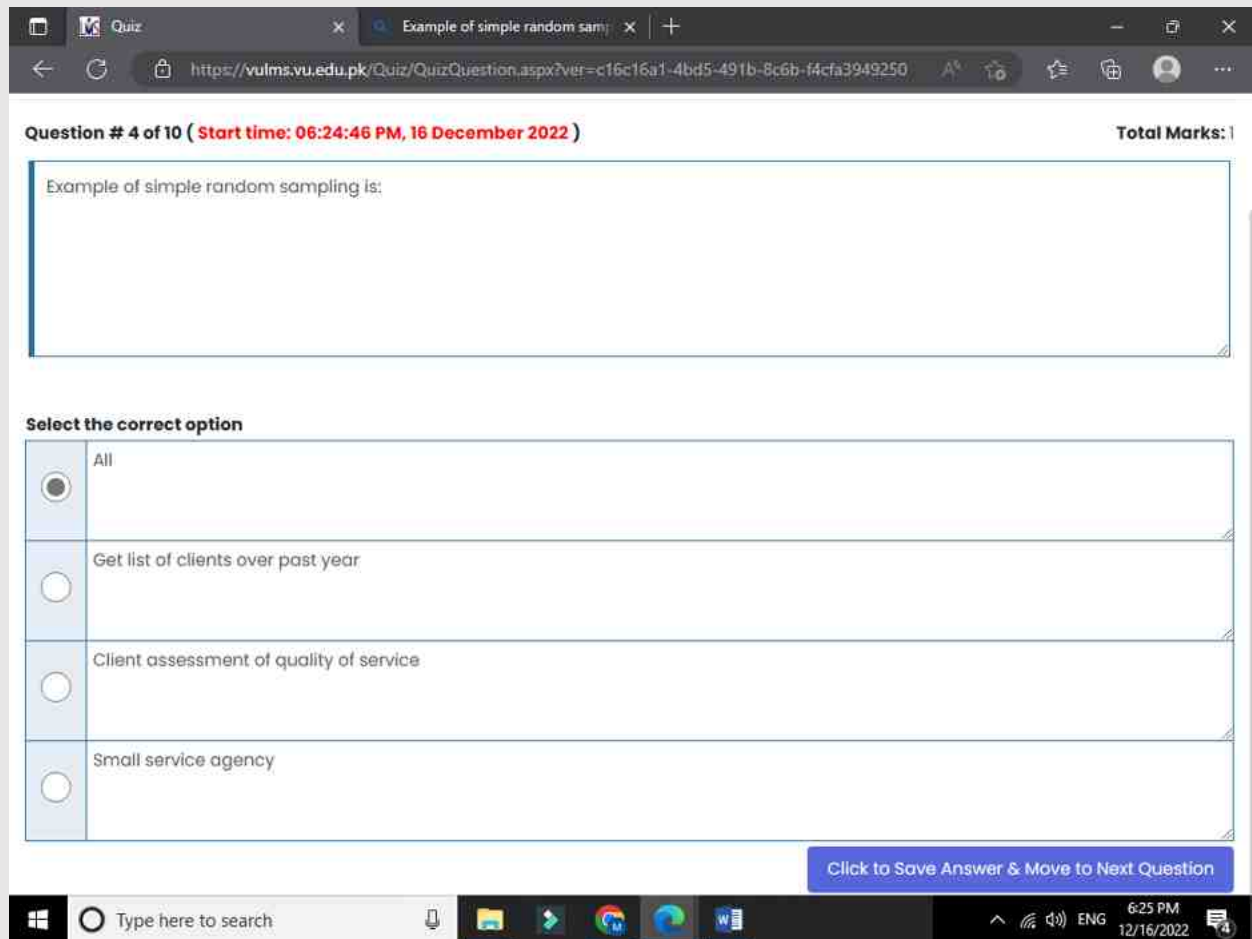
- Sampling makes possible the study of a large, (different characteristics) population.
- Sampling is for economy
- Sampling is for speed.
- Sampling is for accuracy.
- Sampling saves the sources of data from being all consumed.

Type here to search 6:24 PM 12/16/2022

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Example of simple random sampling is:



The screenshot shows a web browser window with a quiz interface. The address bar shows the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=c16c16a1-4bd5-491b-8c6b-f4cfa3949250>. The page title is "Quiz". The question is "Question # 4 of 10 (Start time: 06:24:46 PM, 16 December 2022)" with "Total Marks: 1". The question text is "Example of simple random sampling is:". Below the question is a large text input area. Underneath is a section titled "Select the correct option" with four radio button options: "All", "Get list of clients over past year", "Client assessment of quality of service", and "Small service agency". A blue button at the bottom right says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom with the search bar and various application icons.

Question # 4 of 10 (Start time: 06:24:46 PM, 16 December 2022) Total Marks: 1

Example of simple random sampling is:

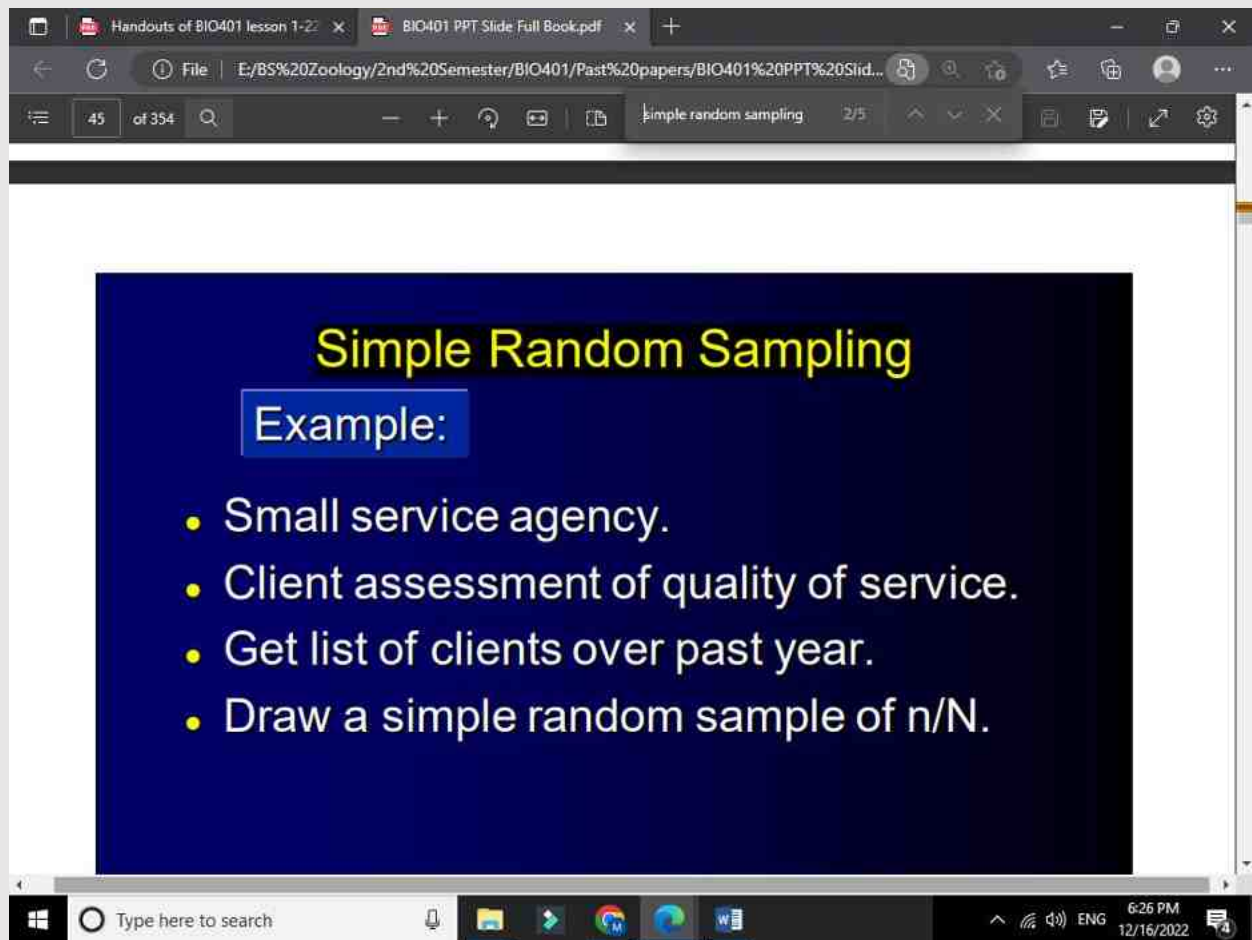
Select the correct option

- ☒ All
- ☐ Get list of clients over past year
- ☐ Client assessment of quality of service
- ☐ Small service agency

Click to Save Answer & Move to Next Question

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The screenshot shows a web browser window displaying a presentation slide. The browser's address bar shows the file path: E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid... The slide itself has a dark blue background with yellow text. The title 'Simple Random Sampling' is at the top. Below it, the word 'Example:' is highlighted in a blue box. A bulleted list follows, detailing a scenario for simple random sampling. The Windows taskbar at the bottom shows the search bar, task view button, and several open applications including File Explorer, Edge, and Word. The system clock indicates 6:26 PM on 12/16/2022.

Simple Random Sampling

Example:

- Small service agency.
- Client assessment of quality of service.
- Get list of clients over past year.
- Draw a simple random sample of n/N .

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A _____ is a visual representation of the five-number summary of the distribution of a numerical variable.

Quiz

A _____ is a visual representa

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=bc825667-5b97-4dcd-9b03-3e7f1c12d6a5

Question # 5 of 10 (Start time: 06:25:54 PM, 16 December 2022) Total Marks: 1

A _____ is a visual representation of the five-number summary of the distribution of a numerical variable.

Select the correct option

☐	All of these
☐	distribution table
☐	whisker plot
☒	boxplot

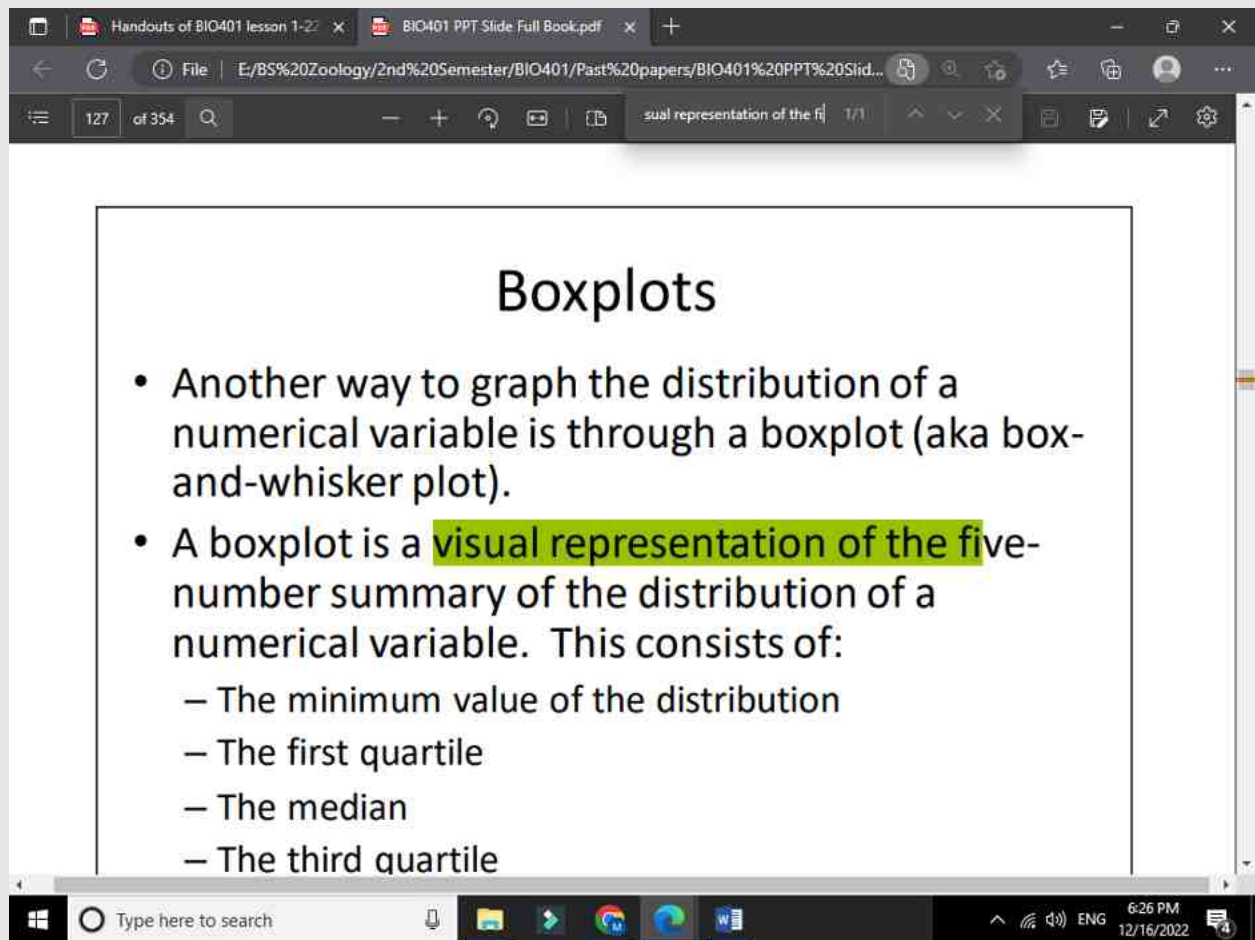
Click to Save Answer & Move to Next Question

Type here to search

6:26 PM 12/16/2022

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For Paid Quiz contact on 03044756496



The image is a screenshot of a presentation slide titled "Boxplots". The slide is displayed within a web browser window. The browser's address bar shows the file path: "E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid...". The slide content includes a title "Boxplots" and a bulleted list. The second bullet point, "A boxplot is a visual representation of the five-number summary of the distribution of a numerical variable. This consists of:", has the phrase "visual representation of the five-number summary" highlighted in green. Below this, there is a sub-list of four items: "The minimum value of the distribution", "The first quartile", "The median", and "The third quartile". The presentation window shows "127 of 354" slides. The Windows taskbar at the bottom includes a search bar, task view icon, and several application icons (File Explorer, Edge, Word). The system clock in the bottom right corner indicates "6:26 PM" on "12/16/2022".

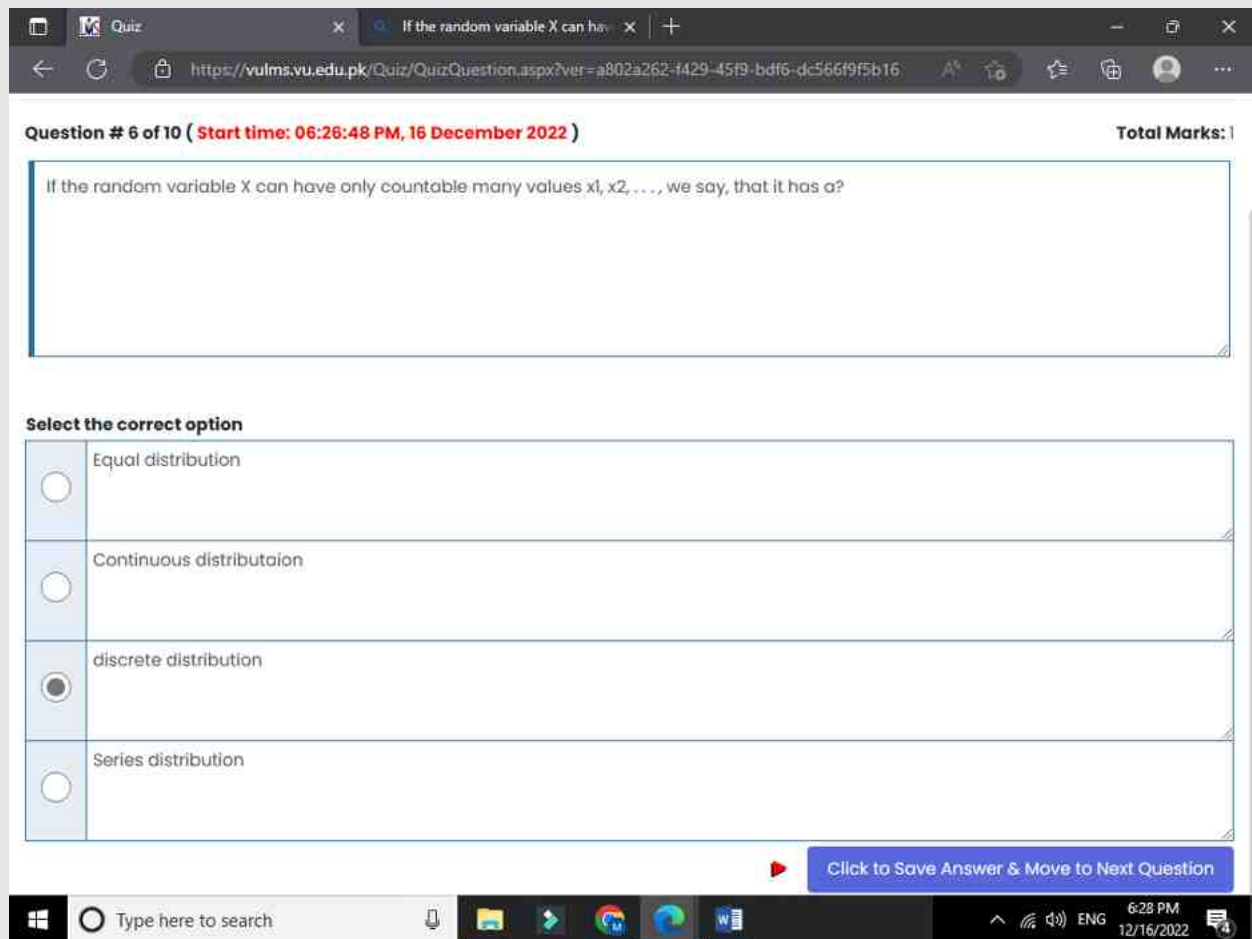
Boxplots

- Another way to graph the distribution of a numerical variable is through a boxplot (aka box-and-whisker plot).
- A boxplot is a visual representation of the five-number summary of the distribution of a numerical variable. This consists of:
 - The minimum value of the distribution
 - The first quartile
 - The median
 - The third quartile

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If the random variable X can have only countable many values $x_1, x_2, \dots$, we say, that it has a?



The screenshot shows a web browser window with a quiz question. The browser's address bar shows the URL <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=a802a262-f429-45f9-bdf6-dc566f9f5b16>. The question is titled "Question # 6 of 10 (Start time: 06:28:48 PM, 16 December 2022)" and has a "Total Marks: 1" indicator. The question text is: "If the random variable X can have only countable many values $x_1, x_2, \dots$, we say, that it has a?". Below the question is a text input field. Underneath the input field, it says "Select the correct option". There are four radio button options: "Equal distribution", "Continuous distributaion", "discrete distribution", and "Series distribution". The "discrete distribution" option is selected. At the bottom right of the question area is a blue button that says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the screen, showing the search bar, taskbar icons, and system tray with the time 6:28 PM and date 12/16/2022.

Question # 6 of 10 (Start time: 06:28:48 PM, 16 December 2022) Total Marks: 1

If the random variable X can have only countable many values $x_1, x_2, \dots$, we say, that it has a?

Select the correct option

- ☐ Equal distribution
- ☐ Continuous distributaion
- ☒ discrete distribution
- ☐ Series distribution

Click to Save Answer & Move to Next Question

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One of the earliest known demographic / Bio-statistics study was conducted by –

_____ .

Quiz

One of the earliest known demographic / Bio-statistics study was conducted by -----

Question # 7 of 10 (Start time: 06:28:38 PM, 16 December 2022) Total Marks: 1

One of the earliest known demographic / Bio-statistics study was conducted by -----

Select the correct option

☐ The Lady with a Lamp

☐ Nightingale

☐ Ronald A. Fisher

☒ John Graunt

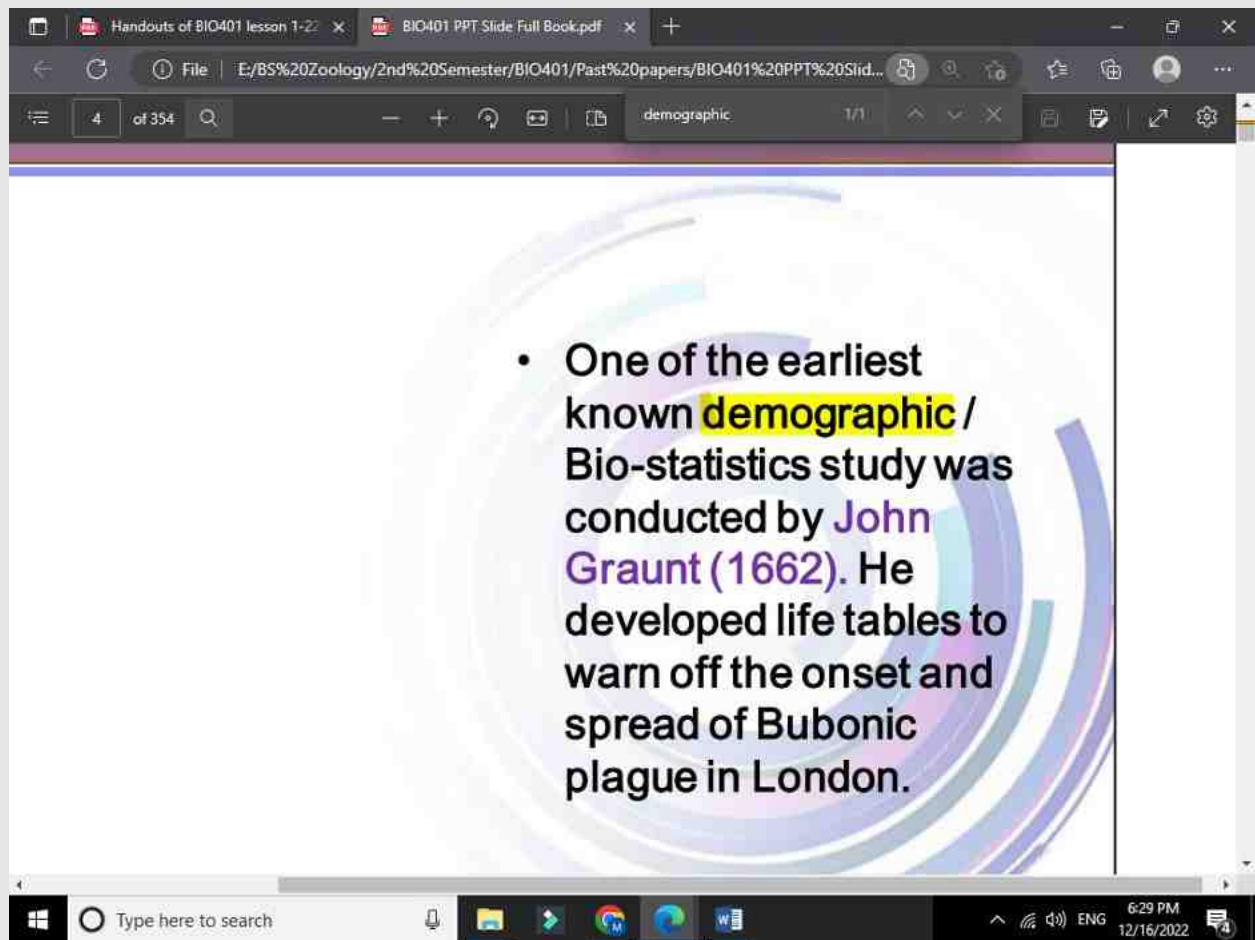
Click to Save Answer & Move to Next Question

Type here to search

6:29 PM 12/16/2022

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The screenshot shows a presentation slide titled "demographic" in the top right corner. The slide content is as follows:

- One of the earliest known **demographic** / Bio-statistics study was conducted by **John Graunt (1662)**. He developed life tables to warn off the onset and spread of Bubonic plague in London.

The slide has a background of concentric, multi-colored arcs. The presentation window shows the file path: E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid... and indicates it is slide 4 of 354. The Windows taskbar at the bottom shows the search bar, task view, and several application icons, with the system clock displaying 6:29 PM on 12/16/2022.

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_____ is affected by extreme values.

Quiz

_____ is affected by ex

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=d40835e9-00e3-41b5-93b2-9ab91eda8f90

Question # 8 of 10 (Start time: 06:29:41 PM, 16 December 2022) Total Marks: 1

_____ is affected by extreme values.

Select the correct option

☐	Mode
☐	Median
☐	All
☒	Mean

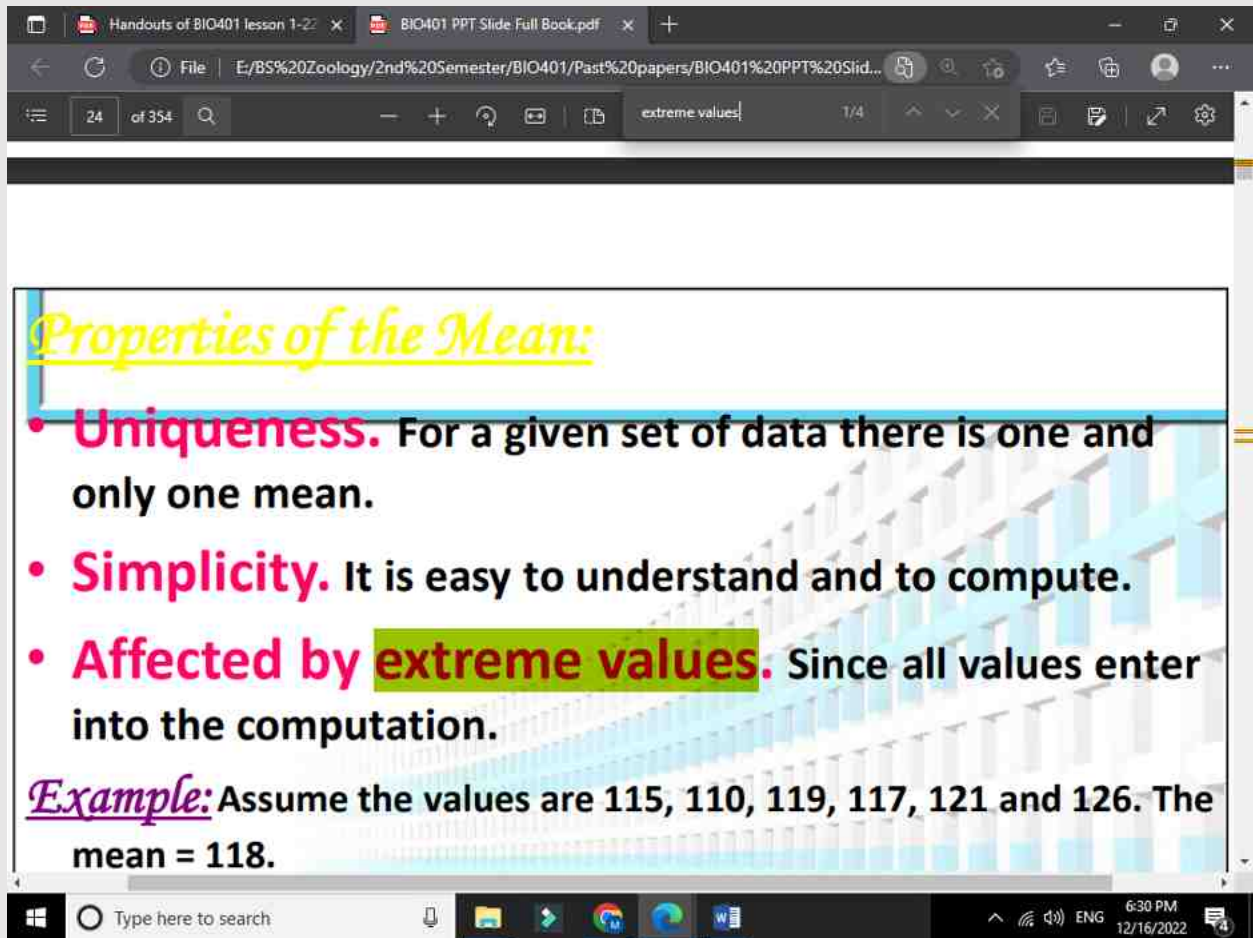
Click to Save Answer & Move to Next Question

Type here to search

6:30 PM 12/16/2022

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The screenshot shows a presentation slide titled "Properties of the Mean:" in a yellow script font. The slide contains three bullet points: "Uniqueness. For a given set of data there is one and only one mean.", "Simplicity. It is easy to understand and to compute.", and "Affected by extreme values. Since all values enter into the computation." The phrase "extreme values" is highlighted in a green box. Below the bullet points is an example: "Example: Assume the values are 115, 110, 119, 117, 121 and 126. The mean = 118." The slide is displayed in a web browser window with the address bar showing a file path. The Windows taskbar at the bottom shows the search bar, task view button, and several application icons, with the system clock indicating 6:30 PM on 12/16/2022.

Properties of the Mean:

- **Uniqueness.** For a given set of data there is one and only one mean.
- **Simplicity.** It is easy to understand and to compute.
- **Affected by extreme values.** Since all values enter into the computation.

Example: Assume the values are 115, 110, 119, 117, 121 and 126. The mean = 118.

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**Probability sampling is divided into
_____ types**

The screenshot shows a web browser window with a quiz titled "Probability sampling is divided into _____ types". The question is labeled "Question # 9 of 10" and has a start time of "06:30:22 PM, 16 December 2022". The total marks are indicated as "1". Below the question, there is a text input field. Underneath the input field, the instruction "Select the correct option" is displayed. There are four radio button options: 6, 7, 5, and 4. The option "5" is selected. At the bottom right of the quiz area, there is a button that says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the screen, showing the search bar and several application icons.

Question # 9 of 10 (Start time: 06:30:22 PM, 16 December 2022) Total Marks: 1

Probability sampling is divided into _____ types

Select the correct option

☐ 6

☐ 7

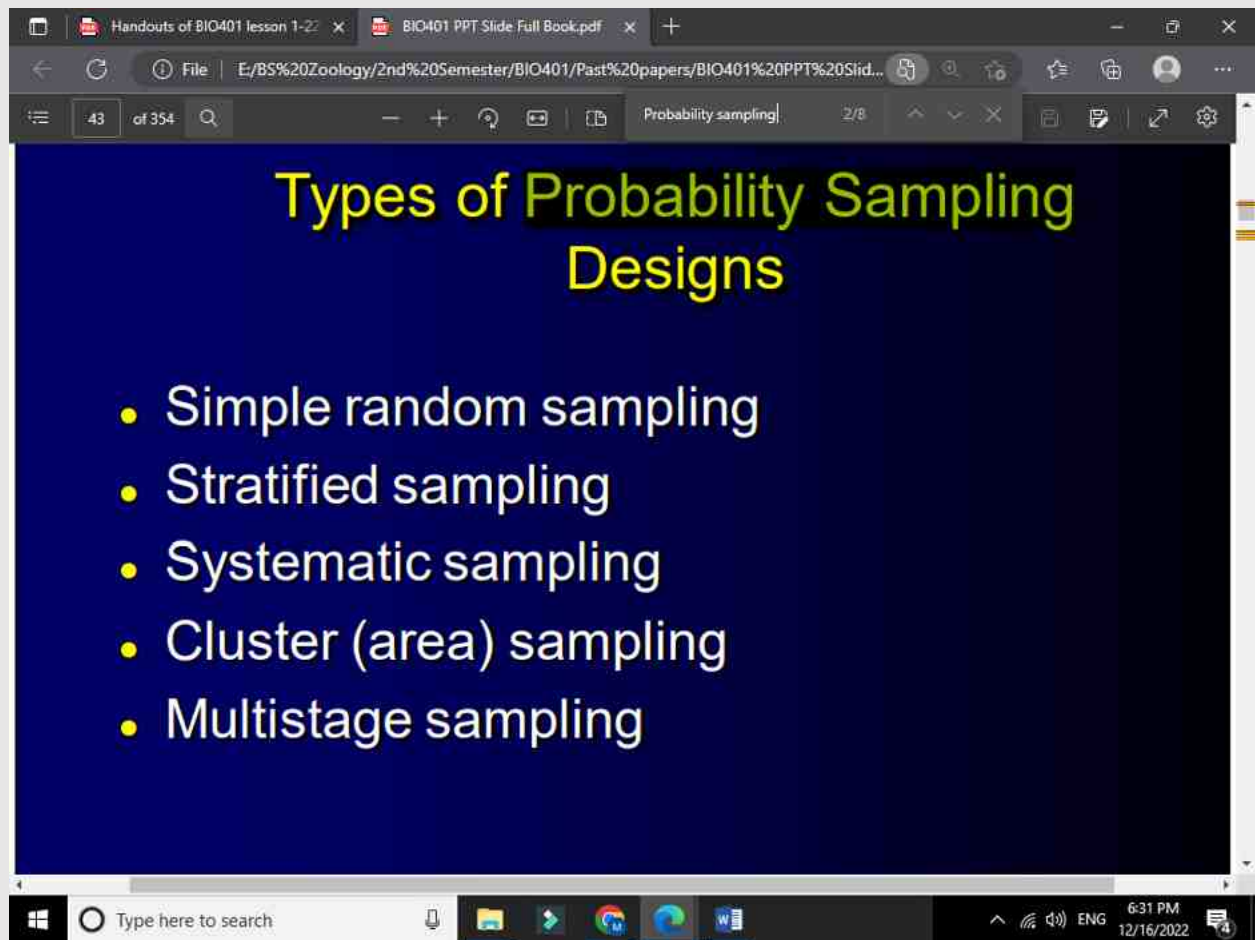
☒ 5

☐ 4

Click to Save Answer & Move to Next Question

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The image is a screenshot of a presentation slide displayed within a web browser. The browser's address bar shows a file path: E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid... The slide itself has a dark blue background with yellow text. The title 'Types of Probability Sampling Designs' is centered at the top. Below the title is a bulleted list of five sampling methods. The Windows taskbar is visible at the bottom of the screen, showing the search bar and several application icons. The system clock in the bottom right corner indicates the time is 6:31 PM on 12/16/2022.

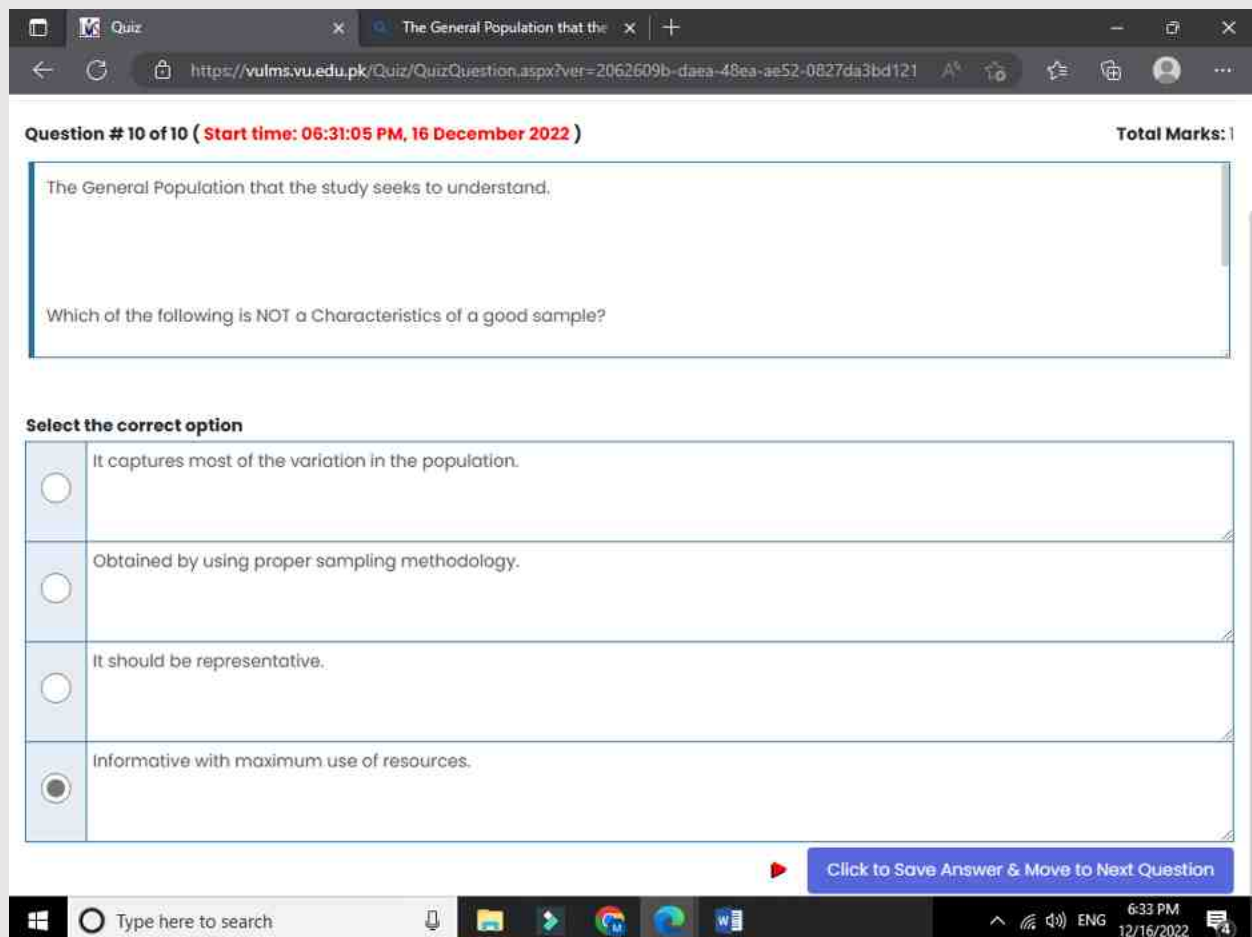
Types of Probability Sampling Designs

- Simple random sampling
- Stratified sampling
- Systematic sampling
- Cluster (area) sampling
- Multistage sampling

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The General Population that the study seeks to understand. Which of the following is NOT a Characteristics of a good sample?



The screenshot shows a web browser window with a quiz interface. The address bar shows the URL: <http://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=2062609b-daea-48ea-ae52-0827da3bd121>. The page title is "The General Population that the study seeks to understand." The question is "Question # 10 of 10 (Start time: 06:31:05 PM, 16 December 2022)" with a "Total Marks: 1" indicator. The question text is "The General Population that the study seeks to understand. Which of the following is NOT a Characteristics of a good sample?". Below the question, there is a section titled "Select the correct option" with four radio button options. The first three options are "It captures most of the variation in the population.", "Obtained by using proper sampling methodology.", and "It should be representative.", all of which are unselected. The fourth option, "Informative with maximum use of resources.", is selected. At the bottom right of the question area, there is a button that says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the screen, showing the search bar and several application icons.

Question # 10 of 10 (Start time: 06:31:05 PM, 16 December 2022) Total Marks: 1

The General Population that the study seeks to understand.

Which of the following is NOT a Characteristics of a good sample?

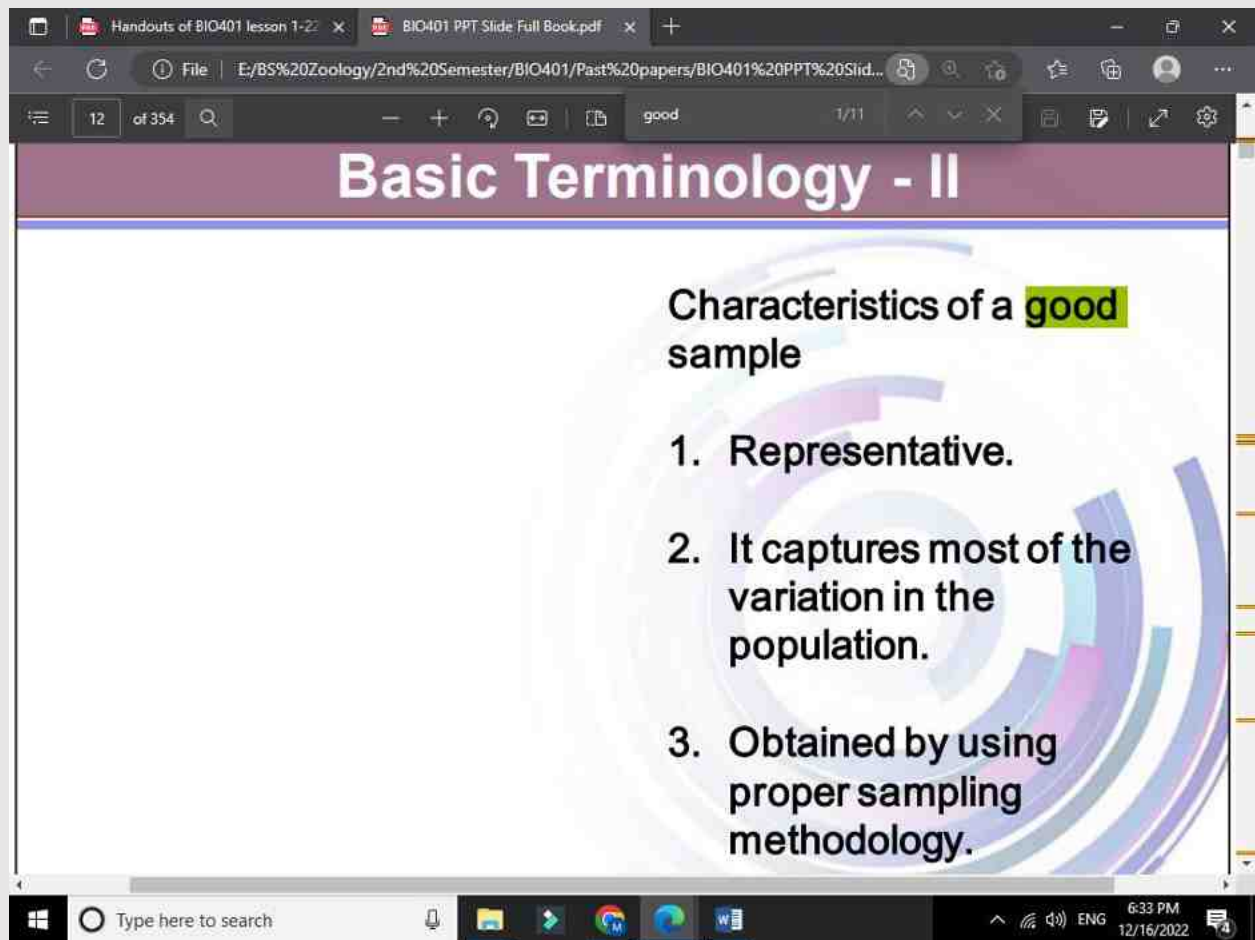
Select the correct option

- ☐ It captures most of the variation in the population.
- ☐ Obtained by using proper sampling methodology.
- ☐ It should be representative.
- ☒ Informative with maximum use of resources.

Click to Save Answer & Move to Next Question

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The image is a screenshot of a presentation slide titled "Basic Terminology - II". The slide is displayed within a web browser window. The browser's address bar shows the file path: "E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid...". The slide content is as follows:

Basic Terminology - II

Characteristics of a **good** sample

1. Representative.
2. It captures most of the variation in the population.
3. Obtained by using proper sampling methodology.

The slide features a decorative background with concentric, multi-colored arcs in shades of purple, blue, and green. The browser window includes a search bar at the top with the text "12 of 354" and a search icon. The Windows taskbar at the bottom shows the search bar with "Type here to search", several application icons (File Explorer, Edge, Word, etc.), and the system clock indicating "6:33 PM 12/16/2022".

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For Paid Quiz contact on 03044756496

If the p value is 0.029 Using $\alpha = 0.05$ as the level of significance criterion, which of the following will be correct?

The screenshot shows a web browser window with a quiz question. The browser's address bar shows the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=782d4d31-69ff-4f5a-ba6a-58ab5559ec55>. The question is titled "Question # 1 of 10 (Start time: 06:50:22 PM, 16 December 2022)" and has a "Total Marks: 1" indicator. The question text is: "If the p value is 0.029 Using $\alpha = 0.05$ as the level of significance criterion, which of the following will be correct?". Below the question, there is a section titled "Select the correct option" with four radio button options: "All", "The results are statistically significant", "The results are not statistically significant", and "Null hypothesis can be accepted". The second option, "The results are statistically significant", is selected. At the bottom right of the question area, there is a blue button that says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the screen, showing the search bar, taskbar icons, and system tray with the time 6:51 PM and date 12/16/2022.

Quiz

If the p value is 0.029 Using $\alpha =$

<https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=782d4d31-69ff-4f5a-ba6a-58ab5559ec55>

Question # 1 of 10 (Start time: 06:50:22 PM, 16 December 2022) Total Marks: 1

If the p value is 0.029 Using $\alpha = 0.05$ as the level of significance criterion, which of the following will be correct?

Select the correct option

☐ All

☒ The results are statistically significant

☐ The results are not statistically significant

☐ Null hypothesis can be accepted

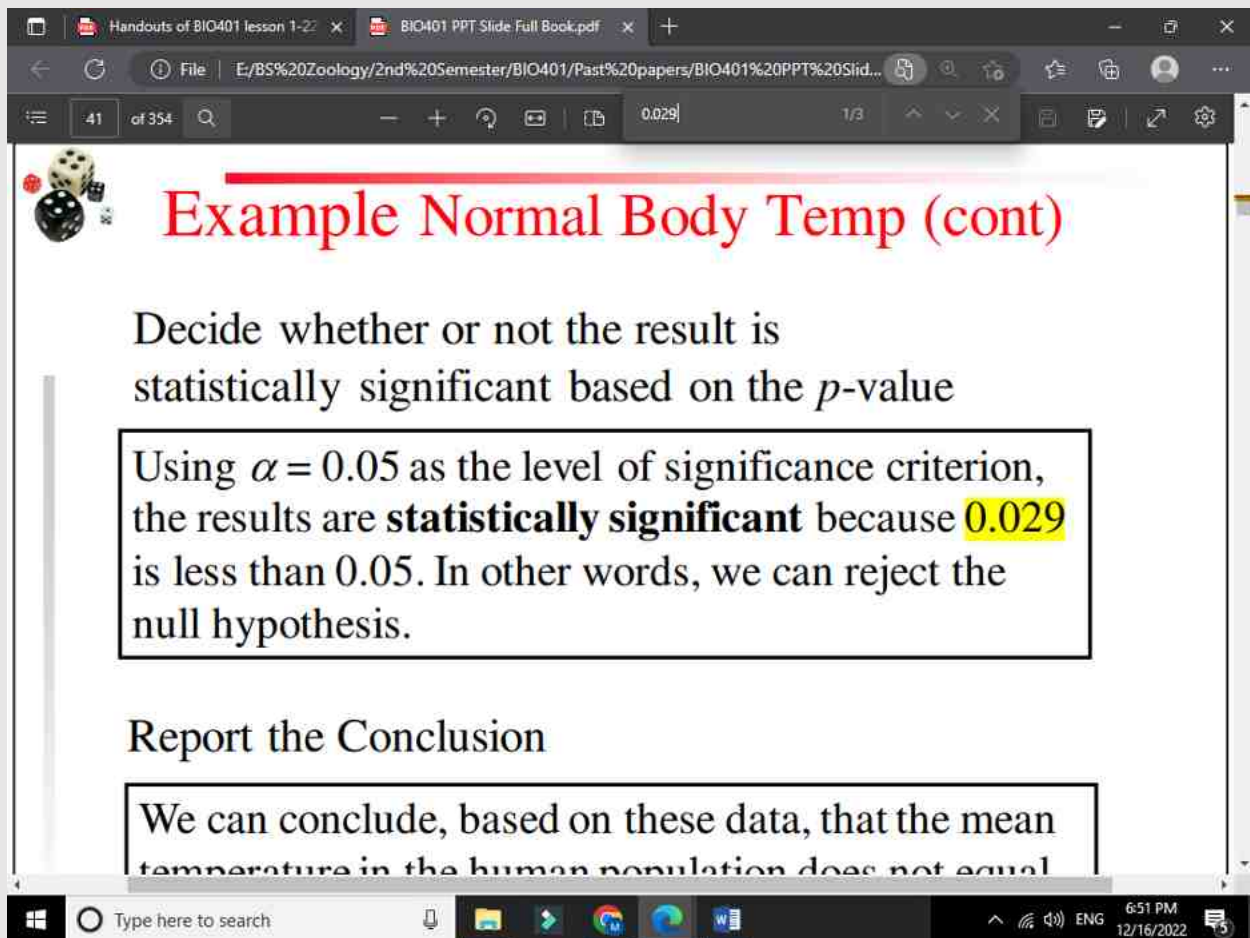
Click to Save Answer & Move to Next Question

Type here to search

6:51 PM
12/16/2022

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The image is a screenshot of a presentation slide. At the top, there is a black banner with yellow text that reads "For Paid Quiz contact on 03044756496". Below this, the presentation window is visible. The title bar shows two tabs: "Handouts of BIO401 lesson 1-22" and "BIO401 PPT Slide Full Book.pdf". The address bar shows a file path: "E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid...". The slide itself has a title "Example Normal Body Temp (cont)" in red text. Below the title, the text reads: "Decide whether or not the result is statistically significant based on the p -value". A box contains the text: "Using $\alpha = 0.05$ as the level of significance criterion, the results are **statistically significant** because **0.029** is less than 0.05. In other words, we can reject the null hypothesis." Below this, the text reads: "Report the Conclusion". Another box contains the text: "We can conclude, based on these data, that the mean temperature in the human population does not equal". The Windows taskbar is visible at the bottom, showing the search bar, task view button, and several application icons. The system clock shows 6:51 PM on 12/16/2022.

Handouts of BIO401 lesson 1-22 x BIO401 PPT Slide Full Book.pdf x

File E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid... 0.029 1/3

Example Normal Body Temp (cont)

Decide whether or not the result is statistically significant based on the p -value

Using $\alpha = 0.05$ as the level of significance criterion, the results are **statistically significant** because **0.029** is less than 0.05. In other words, we can reject the null hypothesis.

Report the Conclusion

We can conclude, based on these data, that the mean temperature in the human population does not equal

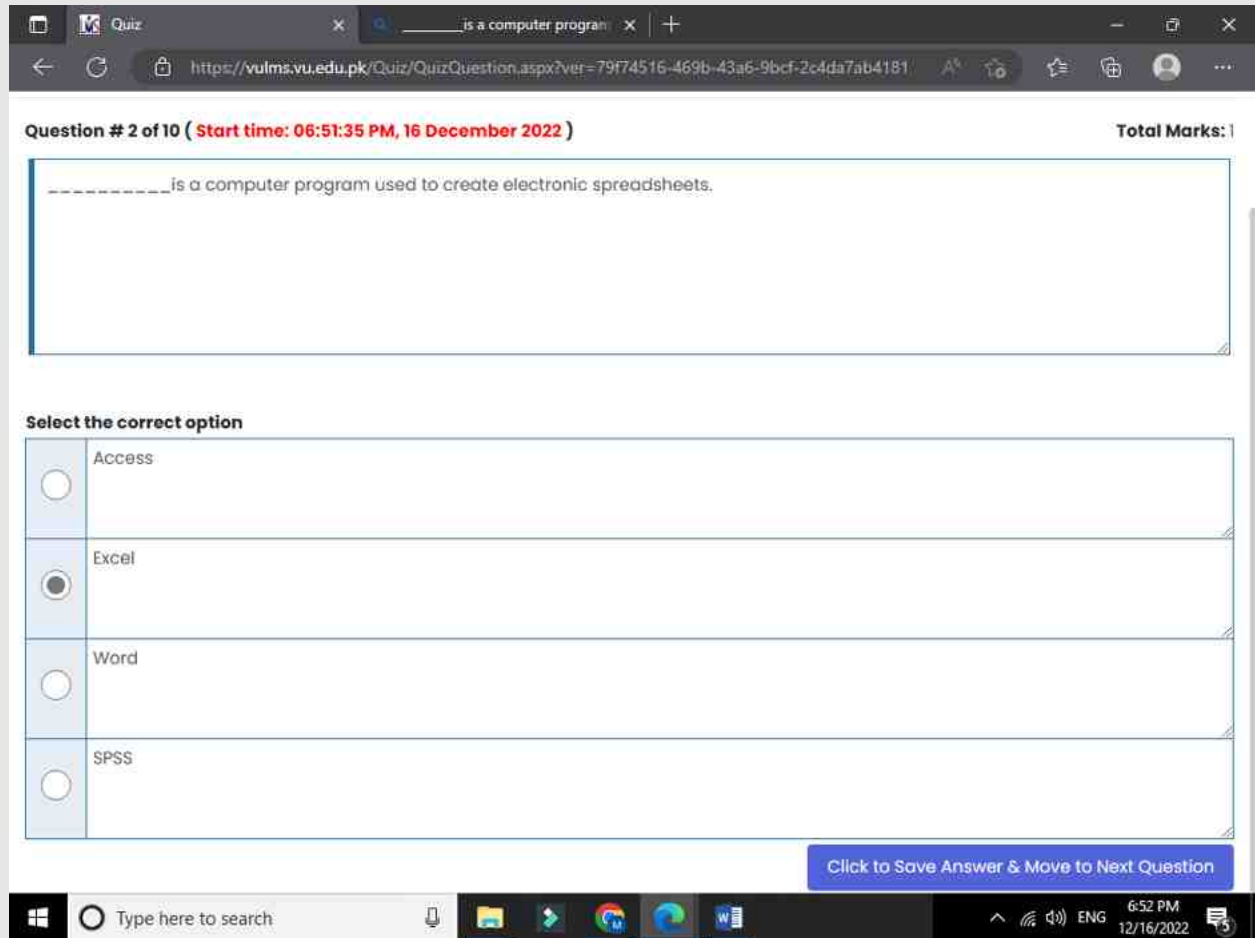
Type here to search

6:51 PM 12/16/2022

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For Paid Quiz contact on 03044756496

_____ is a computer program used to create electronic spreadsheets.



The screenshot shows a web browser window with a single tab titled "Quiz". The address bar displays the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=79f74516-469b-43a6-9bcf-2c4da7ab4181>. The page content includes a question header "Question # 2 of 10 (Start time: 06:51:35 PM, 16 December 2022)" and a "Total Marks: 1" indicator. The question text is "_____ is a computer program used to create electronic spreadsheets." Below the text is a large empty text box for the answer. Underneath the text box is the instruction "Select the correct option" followed by a list of four options, each with a radio button: "Access", "Excel", "Word", and "SPSS". The "Excel" option is selected. At the bottom right of the question area is a blue button that says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the screen, showing the search bar, taskbar icons, and system tray with the time 6:52 PM and date 12/16/2022.

Question # 2 of 10 (Start time: 06:51:35 PM, 16 December 2022) Total Marks: 1

_____ is a computer program used to create electronic spreadsheets.

Select the correct option

- ☐ Access
- ☒ Excel
- ☐ Word
- ☐ SPSS

Click to Save Answer & Move to Next Question

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For Paid Quiz contact on 03044756496

_____ is the hypothesis that is believed to be true by the researcher:

Quiz

..... is the hypothesis is the hypothesis that

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=f2d252c2-0f8f-4235-9b52-c99d422c...

BIO401 – Biostatistics (Quiz No.1) Quiz Start Time: 06:50 PM, 16 December 2022

Question # 3 of 10 (Start time: 06:52:07 PM, 16 December 2022) Total Marks: 1

_____ is the hypothesis that is believed to be true by the researcher:

Select the correct option

Reload Math Equations

☐	Null hypothesis
☐	Rejected hypothesis
☒	Alternative hypothesis
☐	None

Click to Save Answer & Move to Next Question

Type here to search

6:53 PM 12/16/2022

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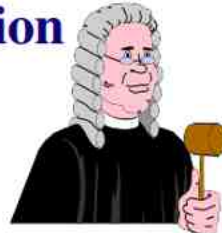
For Paid Quiz contact on 03044756496

Handouts of BIO401 lesson 1-22 x BIO401 PPT Slide Full Book.pdf x

File | E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid... | true | 2/16

34 of 354

◆ H_0 Null Hypothesis states the Assumption to be tested e.g. SBP of participants = 120 ($H_0: \mu = 120$).



◆ H_1 Alternative Hypothesis is the opposite of the null hypothesis (SBP of participants $\neq$ 120 ($H_1: \mu \neq 120$). It may or may not be accepted and it is the hypothesis that is believed to be true by the researcher

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_____ sampling is commonly known as unsystematic, accidental or opportunistic sampling.

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For Paid Quiz contact on 03044756496

Quiz

..... sampling

..... is the hypothesis that

http://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=4388deff-245a-403c-b234-8c6bcd64...

Question # 4 of 10 (Start time: 06:53:20 PM, 16 December 2022) Total Marks: 1

..... sampling is commonly known as unsystematic, accidental or opportunistic sampling.

Select the correct option

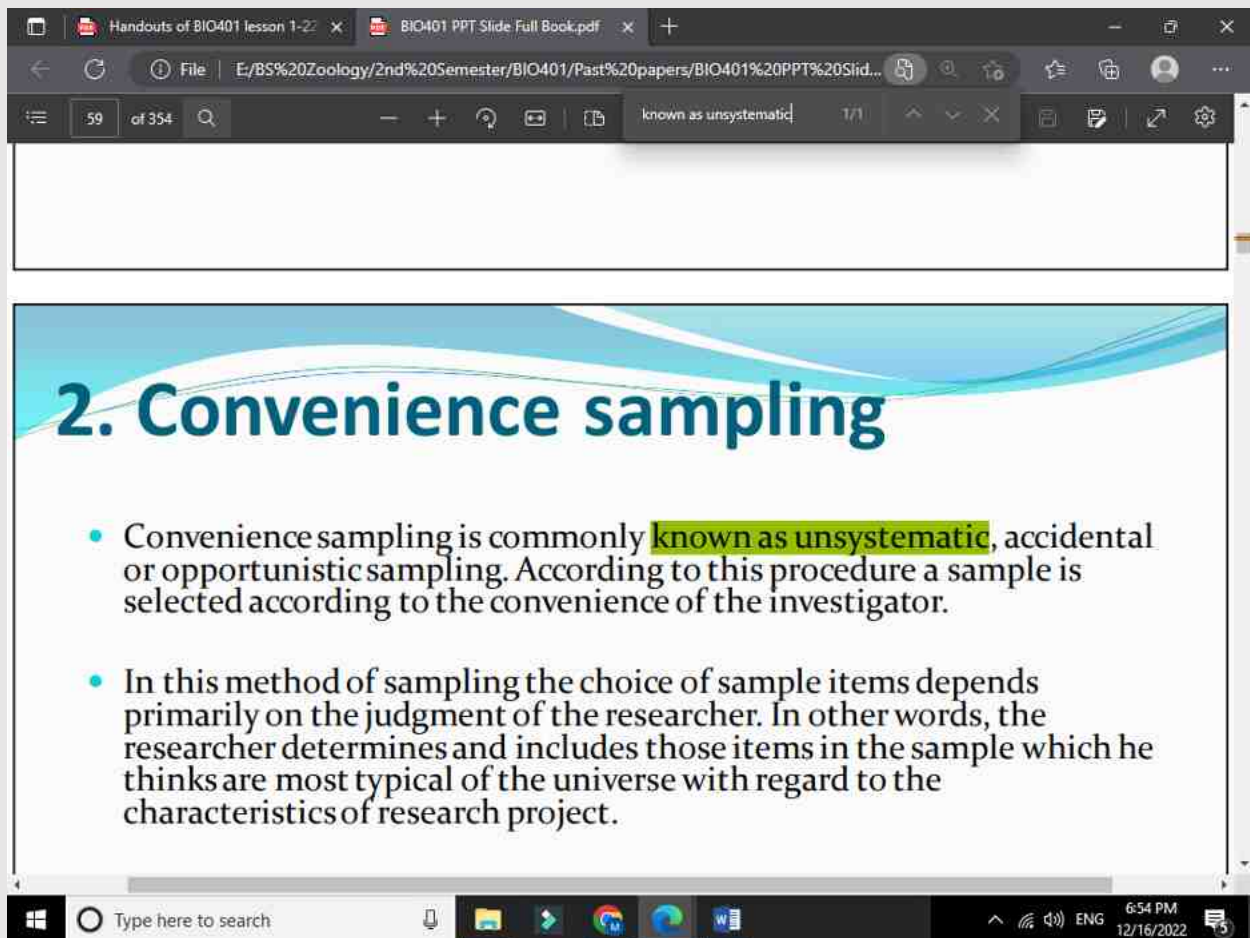
☐	Snow Ball Sampling
☒	Convenience
☐	Judgmental or deliberate sampling
☐	Quota sampling

Type here to search

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For Paid Quiz contact on 03044756496



The image is a screenshot of a presentation slide titled "2. Convenience sampling". The slide is displayed within a web browser window. The browser's address bar shows a file path: "E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid...". The slide content includes a title "2. Convenience sampling" and two bullet points. The first bullet point states: "Convenience sampling is commonly **known as unsystematic**, accidental or opportunistic sampling. According to this procedure a sample is selected according to the convenience of the investigator." The second bullet point states: "In this method of sampling the choice of sample items depends primarily on the judgment of the researcher. In other words, the researcher determines and includes those items in the sample which he thinks are most typical of the universe with regard to the characteristics of research project." The word "known as unsystematic" is highlighted in yellow. The browser window also shows a search bar with "59 of 354" and a search icon. The Windows taskbar at the bottom shows the search bar with "Type here to search", several application icons, and the system clock displaying "6:54 PM 12/16/2022".

Handouts of BIO401 lesson 1-22 x BIO401 PPT Slide Full Book.pdf x

File | E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid... | known as unsystematic | 1/1

2. Convenience sampling

- Convenience sampling is commonly **known as unsystematic**, accidental or opportunistic sampling. According to this procedure a sample is selected according to the convenience of the investigator.
- In this method of sampling the choice of sample items depends primarily on the judgment of the researcher. In other words, the researcher determines and includes those items in the sample which he thinks are most typical of the universe with regard to the characteristics of research project.

Type here to search | 6:54 PM 12/16/2022

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For Paid Quiz contact on 03044756496

The _____ is the difference between the upper quartile and the lower quartile.

The screenshot shows a web browser window with a quiz interface. The address bar shows the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=72394db7-9f90-44a6-aad5-79a323d...>. The page title is "Quiz". The question is "Question # 5 of 10 (Start time: 06:54:02 PM, 16 December 2022)". The total marks are 1. The question text is "The _____ is the difference between the upper quartile and the lower quartile." Below the question is a text input field. Below the input field is a section titled "Select the correct option:". There are four radio button options: "median", "mode", "interquartile range", and "sample". The "interquartile range" option is selected. At the bottom of the browser window, there is a Windows taskbar with the search bar and several application icons. The system clock shows 6:54 PM on 12/16/2022.

Question # 5 of 10 (Start time: 06:54:02 PM, 16 December 2022) Total Marks: 1

The _____ is the difference between the upper quartile and the lower quartile.

Select the correct option:

- ☐ median
- ☐ mode
- ☒ interquartile range
- ☐ sample

Click to Save Answer & Move to Next Question

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Handouts of BIO401 lesson 1-22 x BIO401 PPT Slide Full Book.pdf x +

File | E:/BS%20Zoology/2nd%20Semester/BIO401/Handouts%20of%20BIO401%20lesson... | upper quartile and the lower 1/2

85 of 270

Step 6: Draw a line from the smallest value (5) to the left side of the box and draw a line from the right side of the box to the biggest value (53).



Interquartile range

The interquartile range is the difference between the upper quartile and the lower quartile.

$$53 - 5 = 48$$

Virtual University of Pakistan 85

BIO401 – Biostatistics VU

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Which one is not the type of Probability Sampling designs?

Quiz

Which one is not the type of Probability Sampling designs?

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=275382d9-51f9-4fe8-94a2-d00f51a2...

Question # 6 of 10 (Start time: 06:54:40 PM, 16 December 2022) Total Marks: 1

Which one is not the type of Probability Sampling designs?

Select the correct option

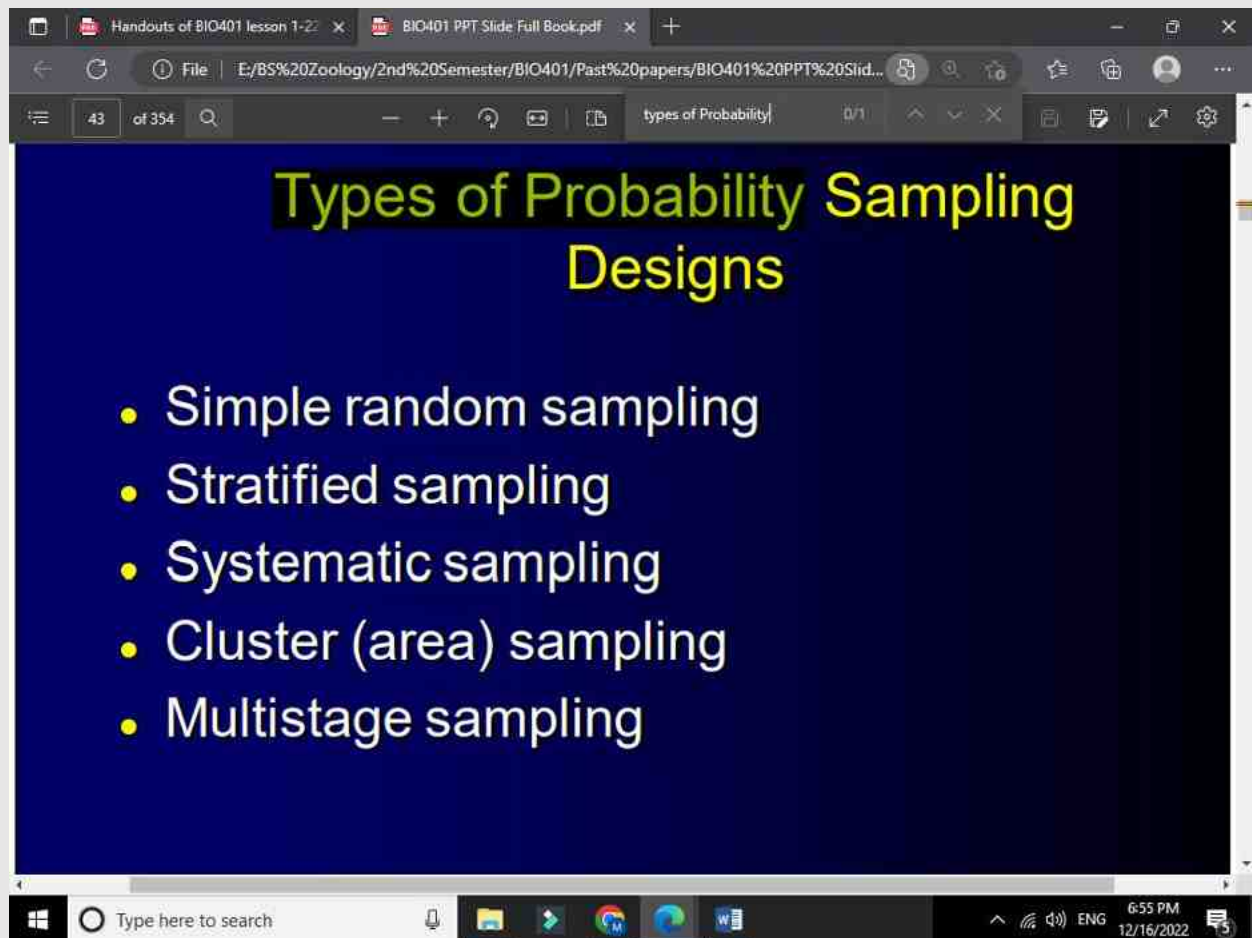
☐	Multistage sampling
☐	Systematic sampling
☒	Non-systematic sampling
☐	Cluster (area) sampling

Type here to search

6:55 PM 12/16/2022

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For Paid Quiz contact on 03044756496



The image is a screenshot of a presentation slide displayed within a web browser. The browser's address bar shows a file path: E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid... The slide itself has a dark blue background with yellow text. The title 'Types of Probability Sampling Designs' is centered at the top. Below the title is a bulleted list of five sampling methods. The Windows taskbar at the bottom shows the search bar, task view button, and several open applications including File Explorer, Edge, and Word. The system clock indicates 6:55 PM on 12/16/2022.

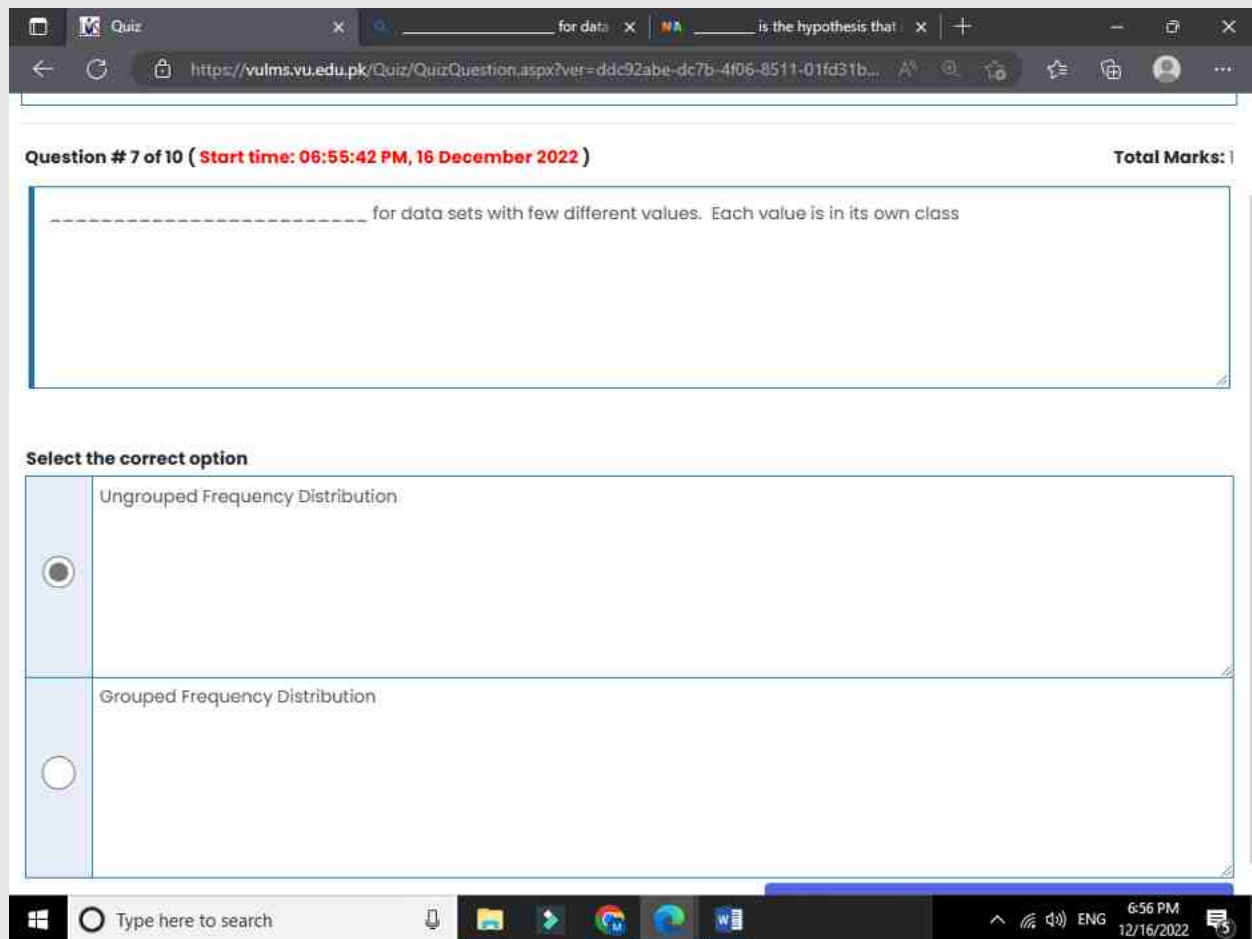
Types of Probability Sampling Designs

- Simple random sampling
- Stratified sampling
- Systematic sampling
- Cluster (area) sampling
- Multistage sampling

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_____ for data sets with few different values. Each value is in its own class



The screenshot shows a web browser window with a quiz interface. The address bar shows the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=ddc92abe-dc7b-4f06-8511-01fd31b...>. The page title is "Quiz". The question is "Question # 7 of 10 (Start time: 06:55:42 PM, 16 December 2022)". The total marks are "Total Marks: 1". The question text is "_____ for data sets with few different values. Each value is in its own class". Below the question, there is a section titled "Select the correct option" with two radio button options: "Ungrouped Frequency Distribution" and "Grouped Frequency Distribution". The "Ungrouped Frequency Distribution" option is selected. The Windows taskbar is visible at the bottom, showing the search bar and several application icons. The system clock shows 6:56 PM on 12/16/2022.

Question # 7 of 10 (Start time: 06:55:42 PM, 16 December 2022) Total Marks: 1

_____ for data sets with few different values. Each value is in its own class

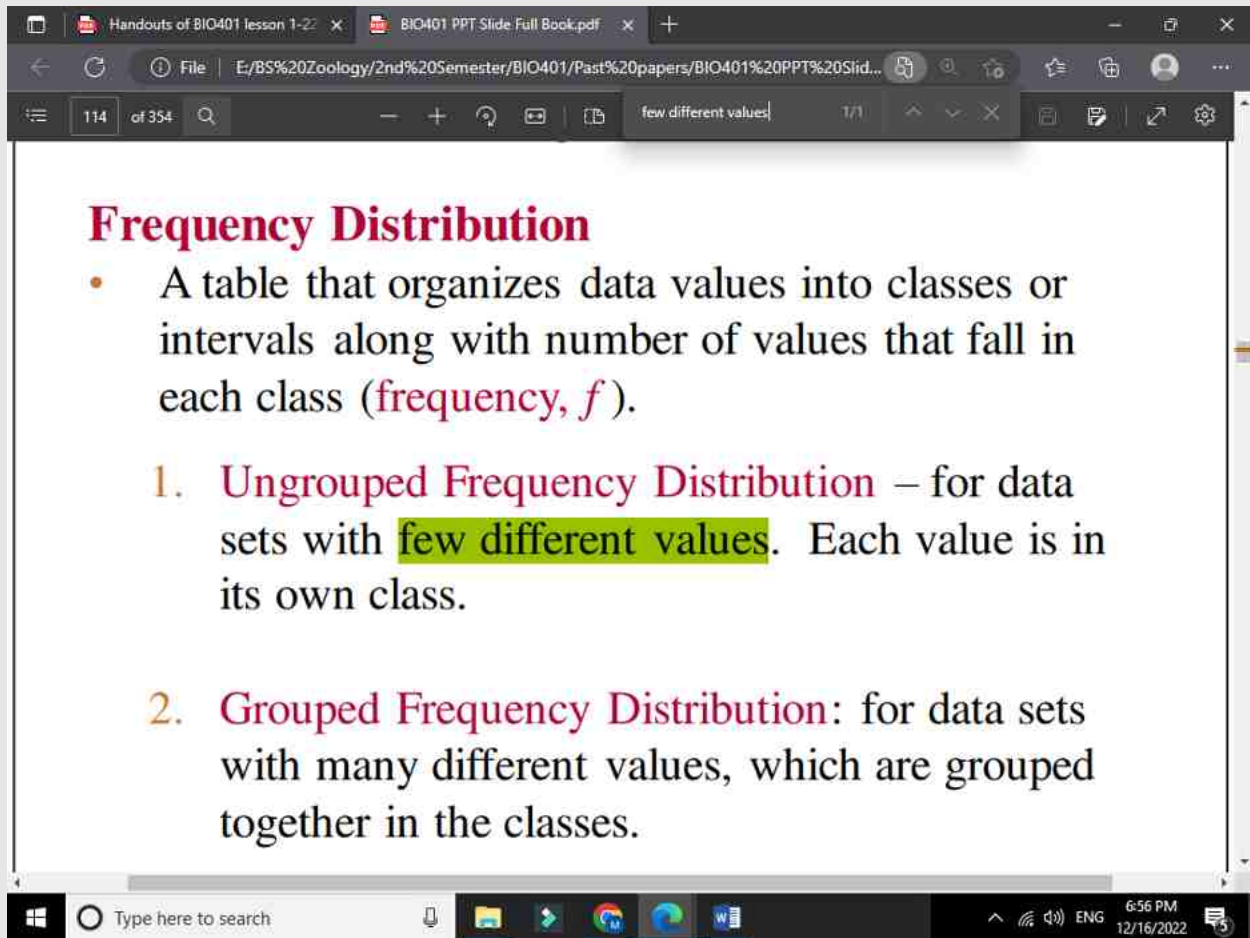
Select the correct option

☒ Ungrouped Frequency Distribution

☐ Grouped Frequency Distribution

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For Paid Quiz contact on 03044756496



The image is a screenshot of a presentation slide. The browser window at the top shows the file path: E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid... The slide content is as follows:

Frequency Distribution

- A table that organizes data values into classes or intervals along with number of values that fall in each class (frequency, f).

1. **Ungrouped Frequency Distribution** – for data sets with few different values. Each value is in its own class.
2. **Grouped Frequency Distribution**: for data sets with many different values, which are grouped together in the classes.

The Windows taskbar at the bottom shows the search bar, taskbar icons, and system clock (6:56 PM, 12/16/2022).

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Has the same shape and the same horizontal scale as the corresponding frequency histogram.

Quiz

Has the same shape and the same horizontal scale as the corresponding frequency histogram.

Question # 8 of 10 (Start time: 06:56:19 PM, 16 December 2022) Total Marks: 1

Has the same shape and the same horizontal scale as the corresponding frequency histogram.

Select the correct option

☐	Relative Frequency Distribution
☒	Relative Frequency Histogram

Click to Save Answer & Move to Next Question

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6:56 PM 12/16/2022

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For Paid Quiz contact on 03044756496

The image is a screenshot of a presentation slide titled "Relative Frequency Distribution". The slide is displayed within a web browser window. The browser's address bar shows the file path: "E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid...". The slide content includes a bulleted list and a mathematical formula. The first bullet point states: "Shows the portion or percentage of the data that falls in a particular class." The second bullet point provides the formula for relative frequency:
$$\text{relative frequency} = \frac{\text{class frequency}}{\text{Sample size}} = \frac{f}{n}$$
 Below the formula, the slide is titled "Relative Frequency Histogram" in red. This title is followed by two bullet points: "Has the same shape and the same horizontal scale as the corresponding frequency histogram." and "The vertical scale measures the **relative frequencies**, not frequencies." The slide number "232" is located in the bottom right corner. The Windows taskbar is visible at the bottom of the screen, showing the search bar and various application icons.

Handouts of BIO401 lesson 1-22 x BIO401 PPT Slide Full Book.pdf x

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Relative Frequency Distribution

- Shows the portion or percentage of the data that falls in a particular class.
- $$\text{relative frequency} = \frac{\text{class frequency}}{\text{Sample size}} = \frac{f}{n}$$

Relative Frequency Histogram

- Has the same shape and the same horizontal scale as the corresponding frequency histogram.
- The vertical scale measures the **relative frequencies**, not frequencies.

232

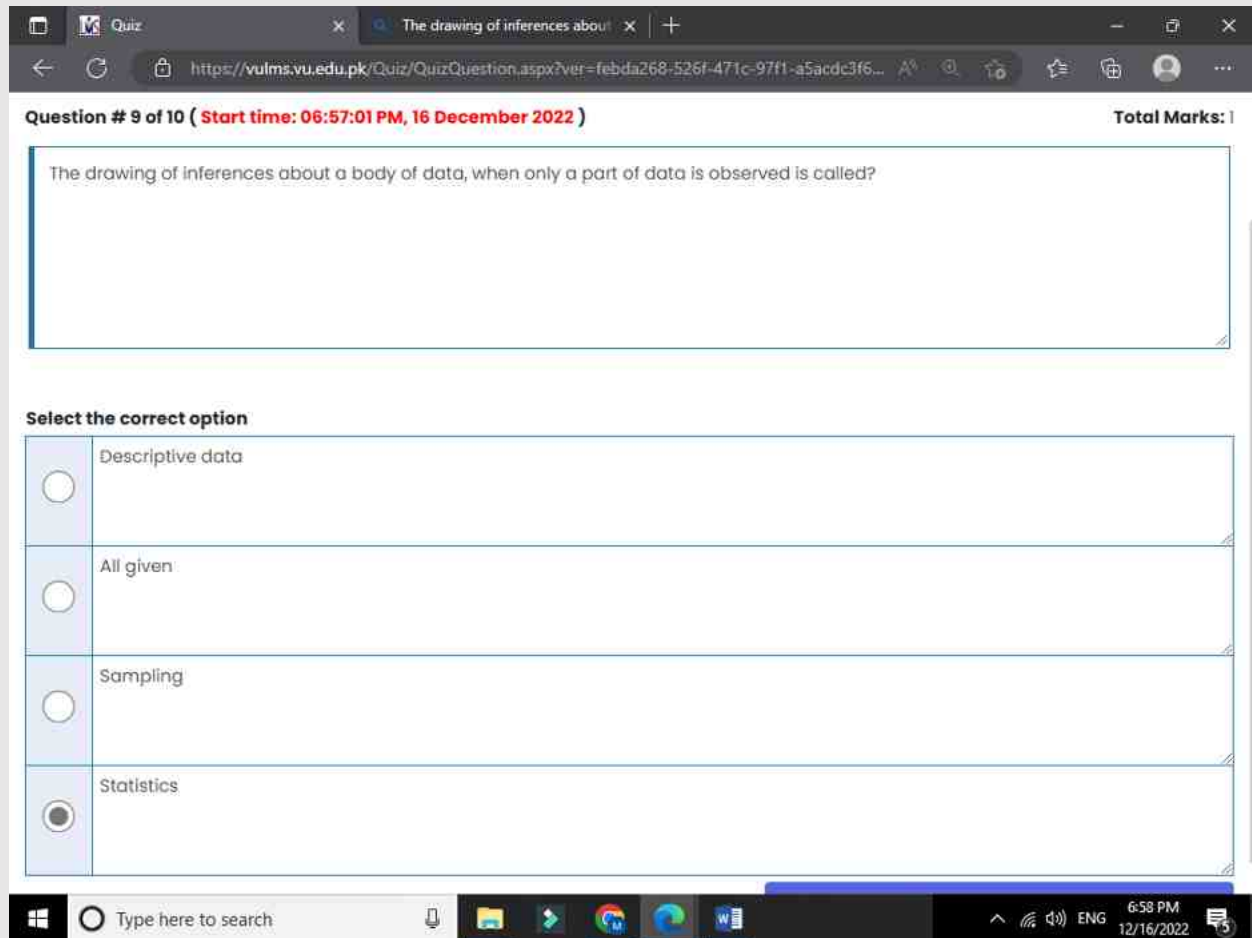
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The drawing of inferences about a body of data, when only a part of data is observed is called?



The screenshot shows a web browser window with a single tab titled "Quiz". The address bar displays the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=febda268-526f-471c-97f1-a5acdc3f6...>. The page content includes a header for "Question # 9 of 10" with a start time of "06:57:01 PM, 16 December 2022" and a "Total Marks: 1". The question text is: "The drawing of inferences about a body of data, when only a part of data is observed is called?". Below the question is a section titled "Select the correct option" with four radio button choices: "Descriptive data", "All given", "Sampling", and "Statistics". The "Statistics" option is selected. The Windows taskbar at the bottom shows the search bar, taskbar icons for File Explorer, Edge, and Word, and the system clock indicating 6:58 PM on 12/16/2022.

Question # 9 of 10 (Start time: 06:57:01 PM, 16 December 2022) Total Marks: 1

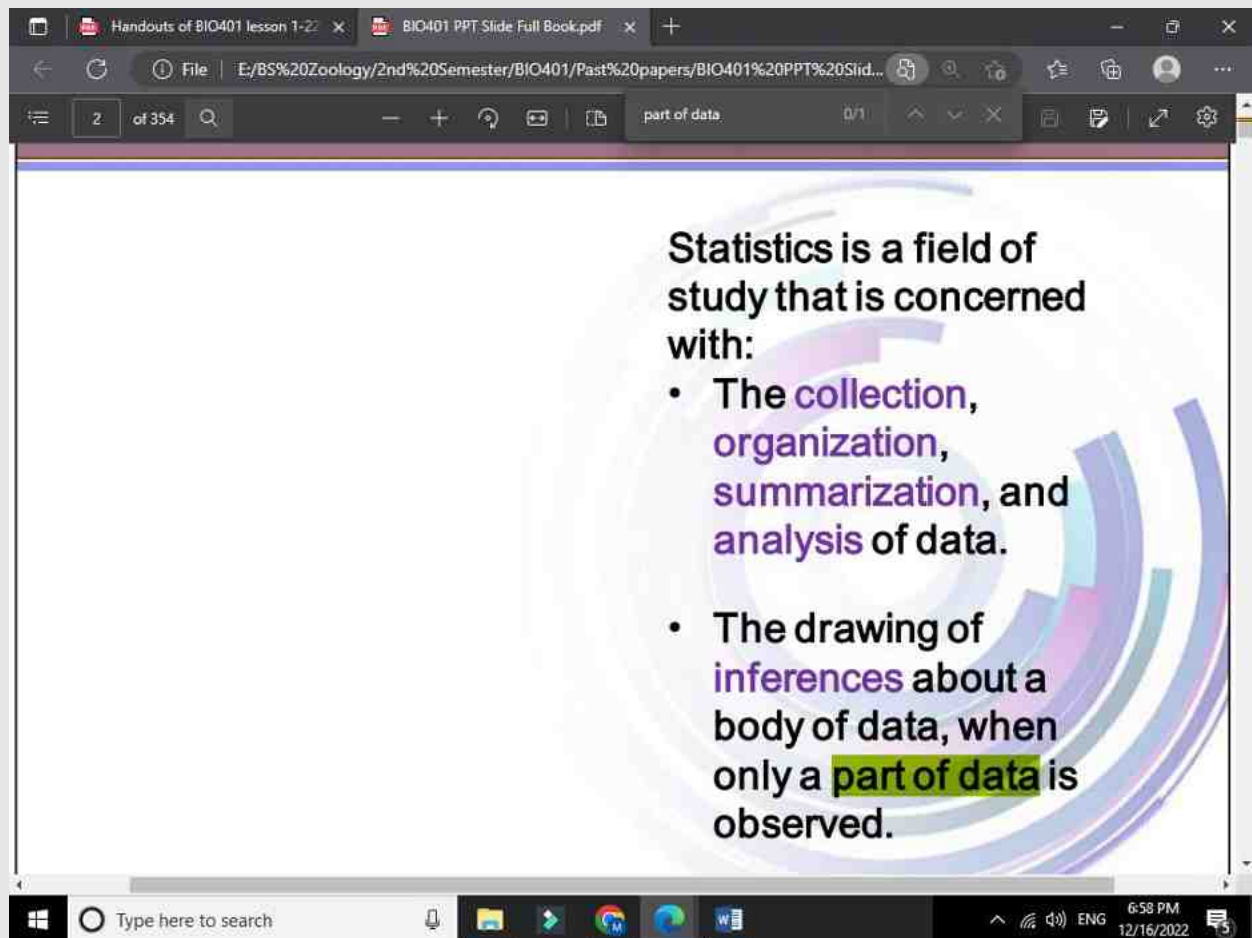
The drawing of inferences about a body of data, when only a part of data is observed is called?

Select the correct option

- ☐ Descriptive data
- ☐ All given
- ☐ Sampling
- ☒ Statistics

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For Paid Quiz contact on 03044756496



The screenshot shows a presentation slide titled "Statistics is a field of study that is concerned with:". The slide is displayed in a web browser window. The browser's address bar shows the file path "E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid...". The slide content includes a bulleted list of two points. The first point is "The collection, organization, summarization, and analysis of data." and the second point is "The drawing of inferences about a body of data, when only a part of data is observed." The text "part of data" is highlighted in green. The slide has a decorative background with concentric circles in shades of blue and purple. The Windows taskbar is visible at the bottom of the screen, showing the search bar and various application icons.

Statistics is a field of study that is concerned with:

- The collection, organization, summarization, and analysis of data.
- The drawing of inferences about a body of data, when only a part of data is observed.

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**Mean of values 115, 110, 119, 117,
121 and 126 is:**

Quiz

Mean of values 115, 110, 119, 117, 121 and 126 is:

Question # 10 of 10 (Start time: 06:58:31 PM, 16 December 2022) Total Marks: 1

Mean of values 115, 110, 119, 117, 121 and 126 is:

Select the correct option

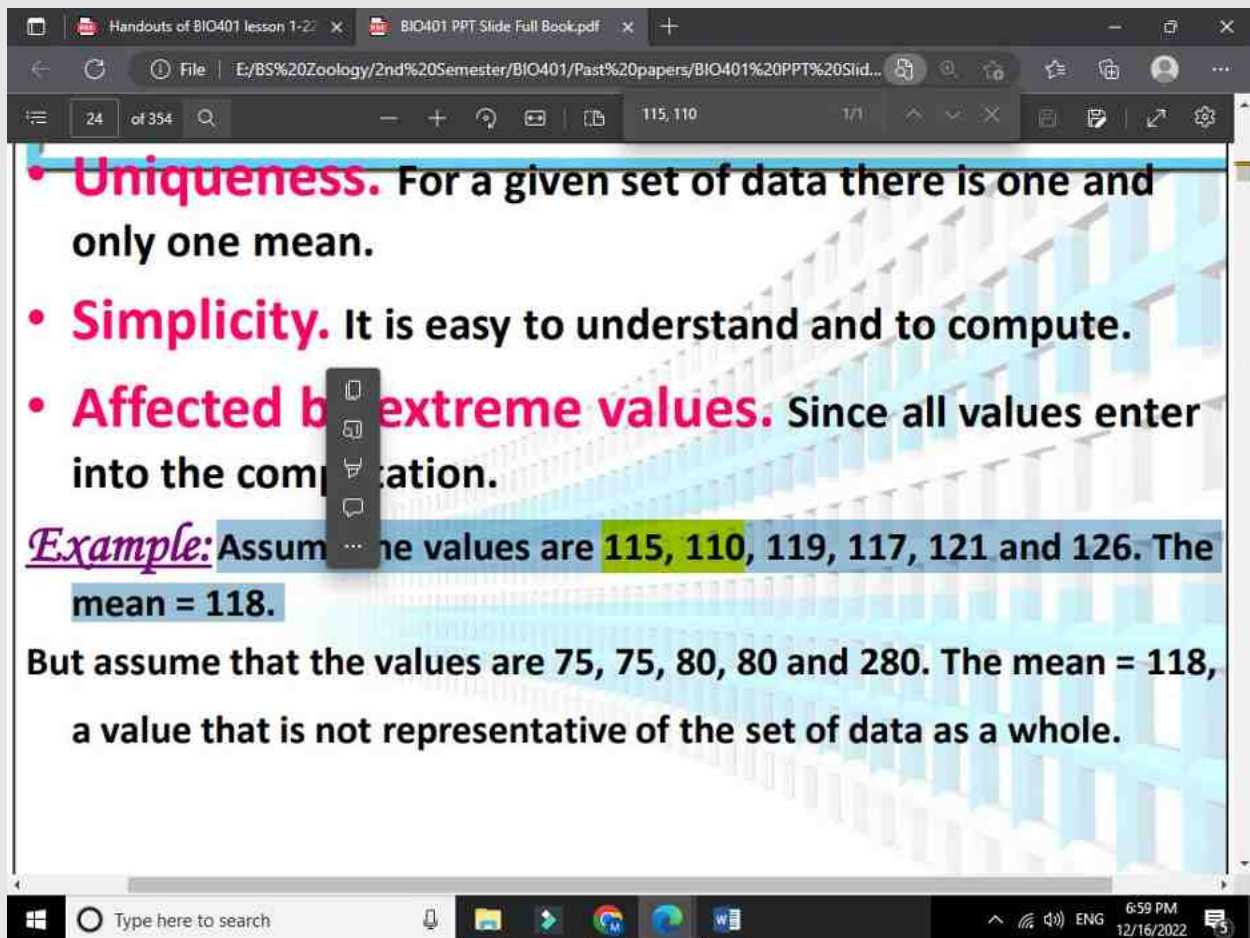
☐	120
☐	117
☒	118
☐	119

Type here to search

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The screenshot shows a presentation slide titled "Handouts of BIO401 lesson 1-22" and "BIO401 PPT Slide Full Book.pdf". The slide content is as follows:

- **Uniqueness.** For a given set of data there is one and only one mean.
- **Simplicity.** It is easy to understand and to compute.
- **Affected by extreme values.** Since all values enter into the computation.

Example: Assume the values are 115, 110, 119, 117, 121 and 126. The mean = 118.

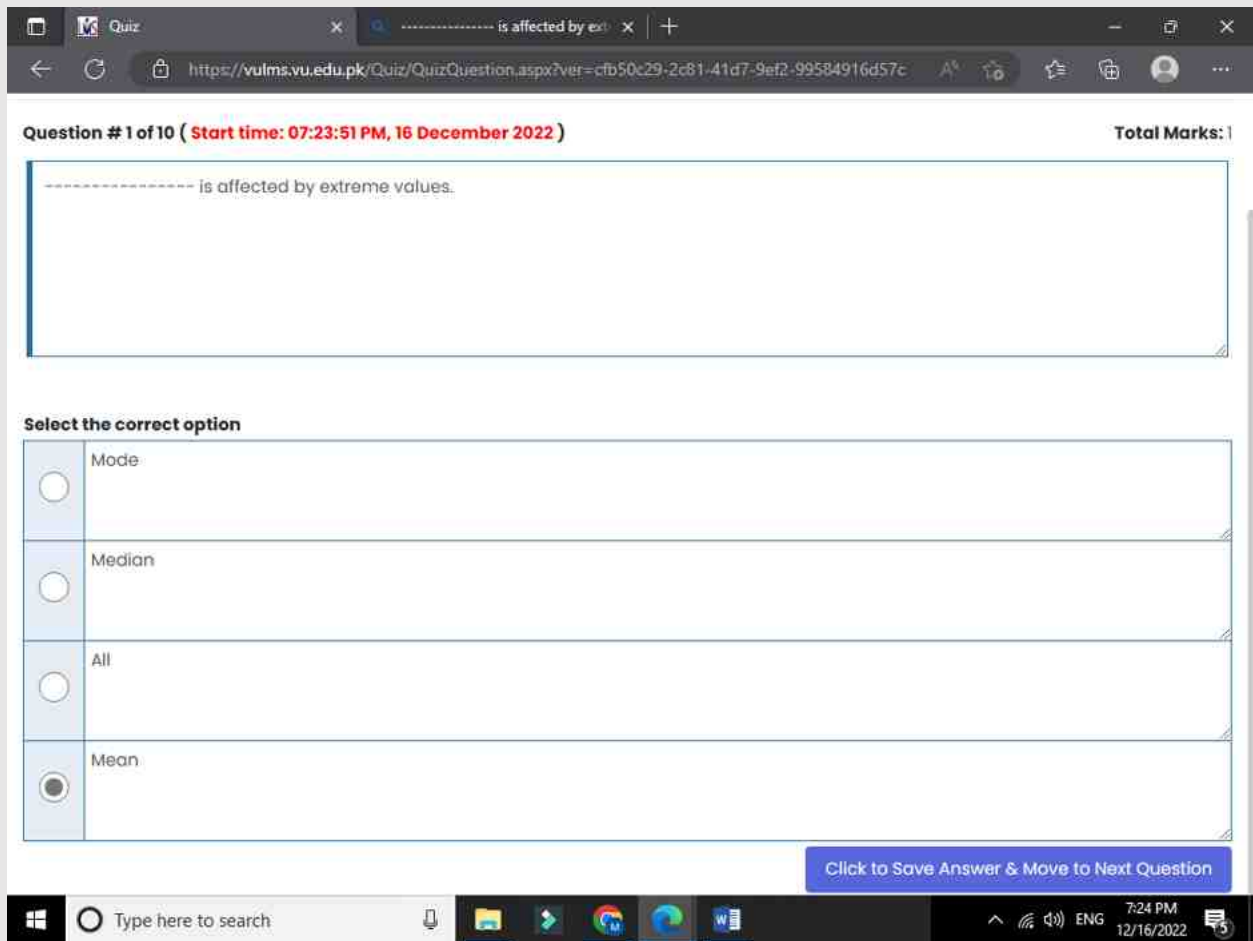
But assume that the values are 75, 75, 80, 80 and 280. The mean = 118, a value that is not representative of the set of data as a whole.

The slide is displayed in a window with a taskbar at the bottom showing the Windows logo, a search bar, and various application icons. The system clock in the bottom right corner indicates 6:59 PM on 12/16/2022.

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For Paid Quiz contact on 03044756496

_____ is affected by extreme values.



The screenshot shows a web browser window with a quiz interface. The address bar shows the URL <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=cfb50c29-2c81-41d7-9ef2-99584916d57c>. The page title is "Quiz". The question is "Question #1 of 10 (Start time: 07:23:51 PM, 16 December 2022)" with "Total Marks: 1". The question text is "_____ is affected by extreme values." Below the question is a large text input area. Underneath is a section titled "Select the correct option" with four radio button options: "Mode", "Median", "All", and "Mean". The "Mean" option is selected. A blue button at the bottom right says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom with the search bar and various application icons.

Question #1 of 10 (Start time: 07:23:51 PM, 16 December 2022) Total Marks: 1

_____ is affected by extreme values.

Select the correct option

- ☐ Mode
- ☐ Median
- ☐ All
- ☒ Mean

Click to Save Answer & Move to Next Question

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For Paid Quiz contact on 03044756496

Median for the given values 23, 28, 28, 31, 32, 34, 37, 42, 50, 61 will be:

The screenshot shows a web browser window with a quiz interface. The browser's address bar displays the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=a6f6f4dd-5770-4ea5-b71b-055dab782c20>. The page title is "Median for the given values 23, 28, 28, 31, 32, 34, 37, 42, 50, 61 will be:". The question is labeled "Question # 2 of 10" with a start time of "07:24:35 PM, 16 December 2022" and a total mark of "1". The question text is "Median for the given values 23, 28, 28, 31, 32, 34, 37, 42, 50, 61 will be:". Below the question is a section titled "Select the correct option" with four radio button options: 35, 32, 34, and 33. The option 33 is selected. A blue button at the bottom right of the question area says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the screen, showing the search bar, taskbar icons, and system tray with the time 7:25 PM on 12/16/2022.

Question # 2 of 10 (Start time: 07:24:35 PM, 16 December 2022) Total Marks: 1

Median for the given values 23, 28, 28, 31, 32, 34, 37, 42, 50, 61 will be:

Select the correct option

☐ 35

☐ 32

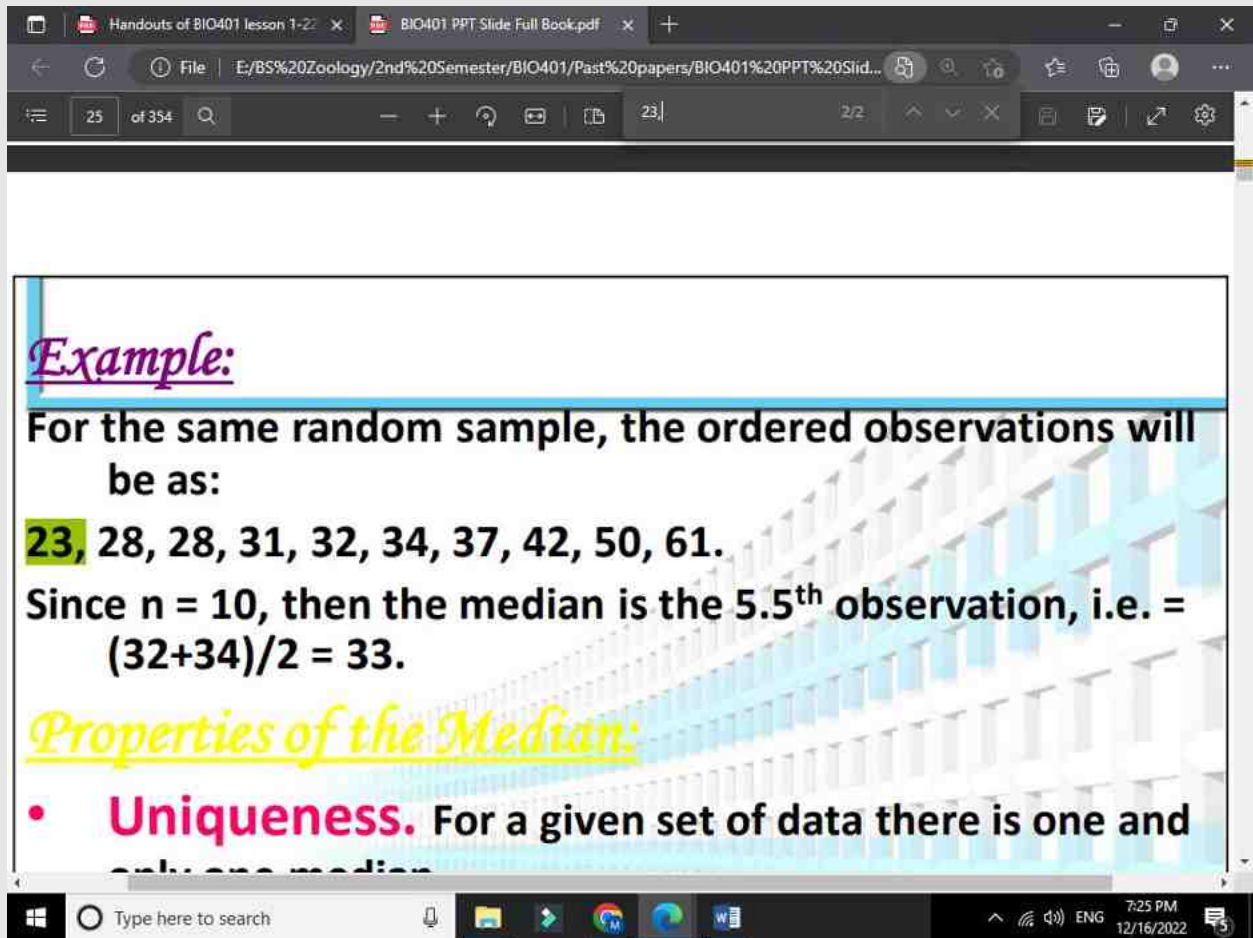
☐ 34

☒ 33

Click to Save Answer & Move to Next Question

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Example:

For the same random sample, the ordered observations will be as:

23, 28, 28, 31, 32, 34, 37, 42, 50, 61.

Since $n = 10$, then the median is the 5.5th observation, i.e. = $(32+34)/2 = 33$.

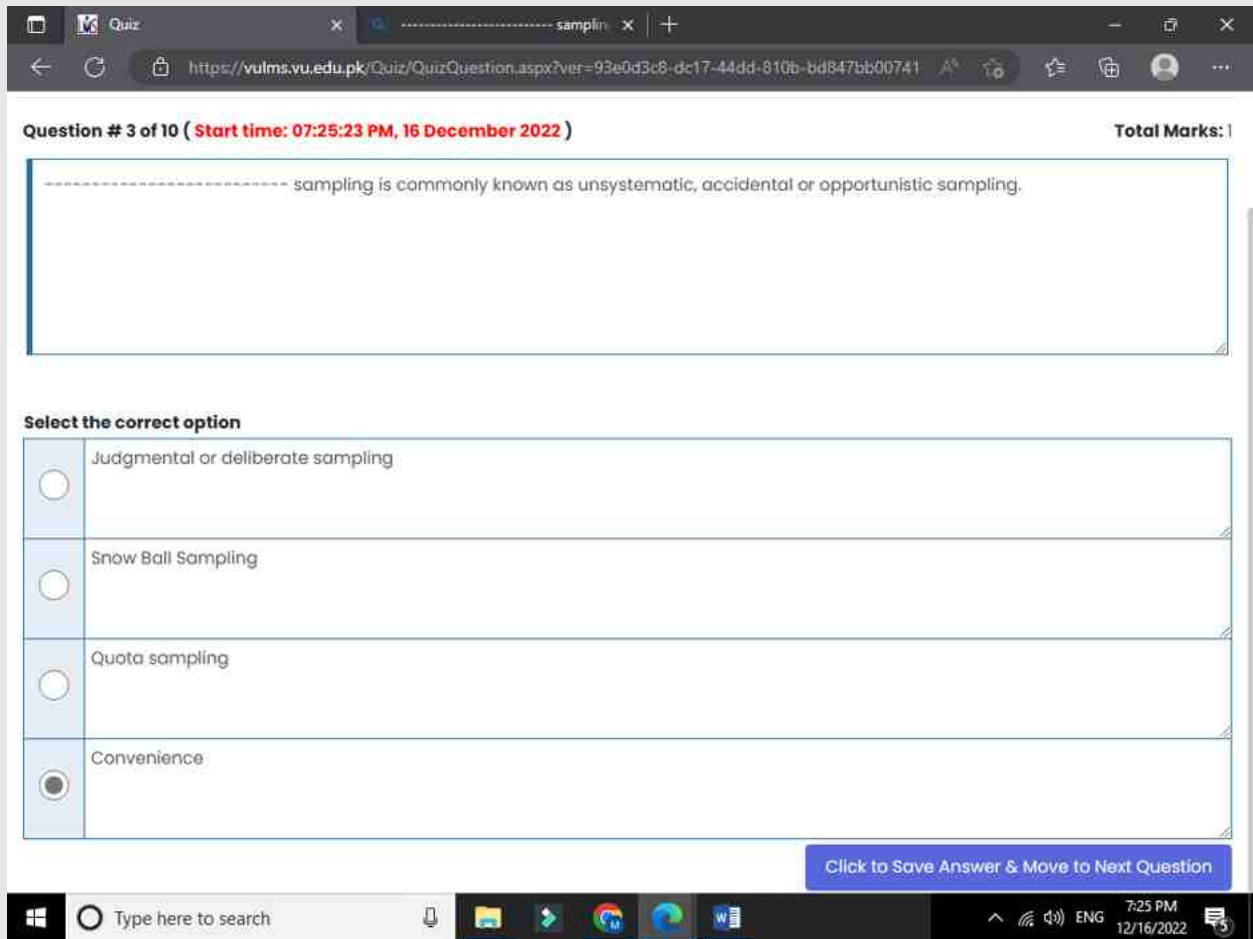
Properties of the Median:

- **Uniqueness.** For a given set of data there is one and only one median.

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_____ sampling is commonly known as unsystematic, accidental or opportunistic sampling.



The screenshot shows a web browser window with a quiz interface. The address bar shows the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=93e0d3c8-dc17-44dd-810b-bd847bb00741>. The page title is "Quiz". The question is "Question # 3 of 10 (Start time: 07:25:23 PM, 16 December 2022)" and the total marks are 1. The question text is "----- sampling is commonly known as unsystematic, accidental or opportunistic sampling." Below the question is a section titled "Select the correct option" with four radio button options: "Judgmental or deliberate sampling", "Snow Ball Sampling", "Quota sampling", and "Convenience". The "Convenience" option is selected. A blue button at the bottom right says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom with the search bar and various application icons.

Question # 3 of 10 (Start time: 07:25:23 PM, 16 December 2022) Total Marks: 1

----- sampling is commonly known as unsystematic, accidental or opportunistic sampling.

Select the correct option

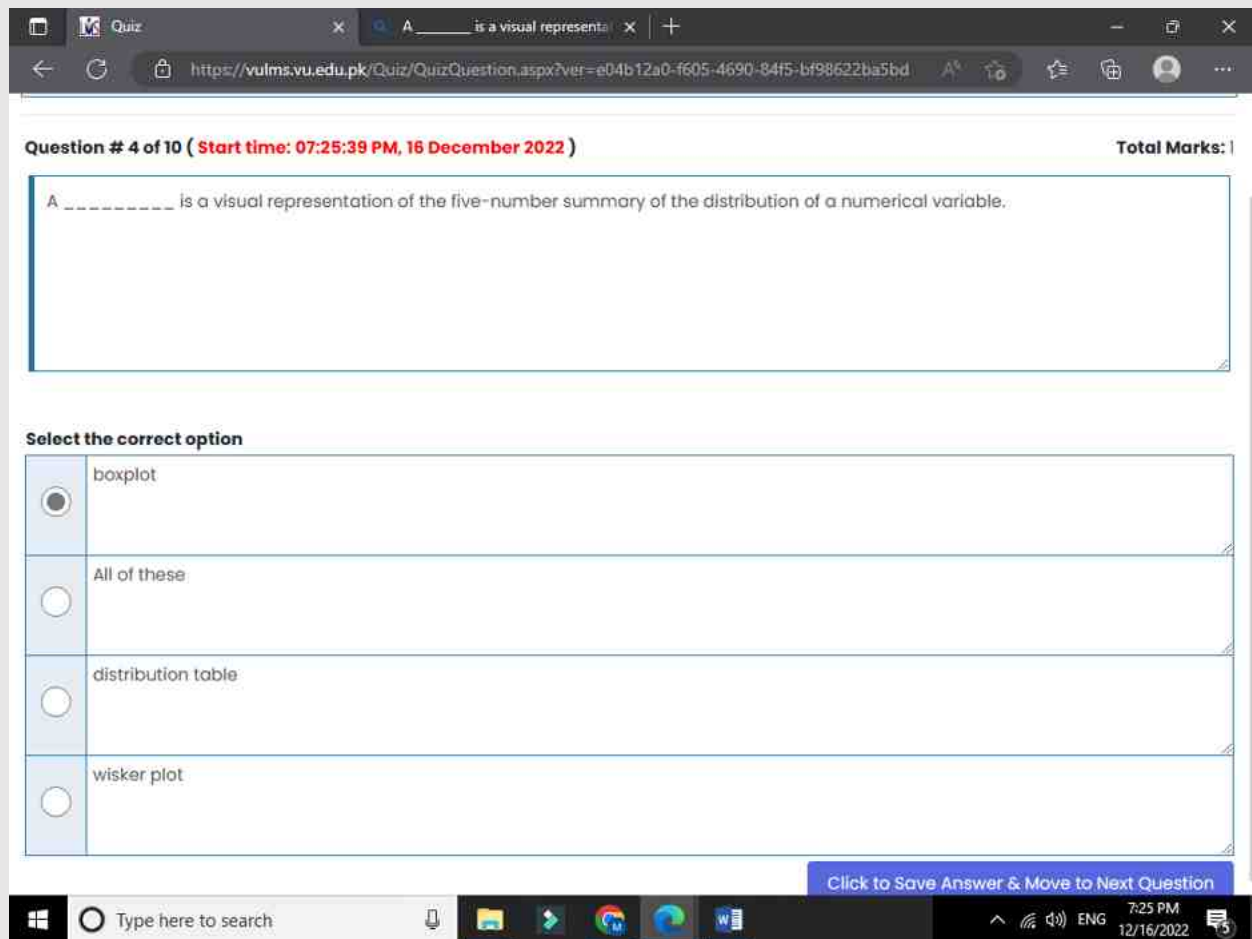
- ☐ Judgmental or deliberate sampling
- ☐ Snow Ball Sampling
- ☐ Quota sampling
- ☒ Convenience

Click to Save Answer & Move to Next Question

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A _____ is a visual representation of the five-number summary of the distribution of a numerical variable.



Quiz

A _____ is a visual representa

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=e04b12a0-f605-4690-84f5-bf98622ba5bd

Question # 4 of 10 (Start time: 07:25:39 PM, 16 December 2022) Total Marks: |

A _____ is a visual representation of the five-number summary of the distribution of a numerical variable.

Select the correct option

☒	boxplot
☐	All of these
☐	distribution table
☐	whisker plot

Click to Save Answer & Move to Next Question

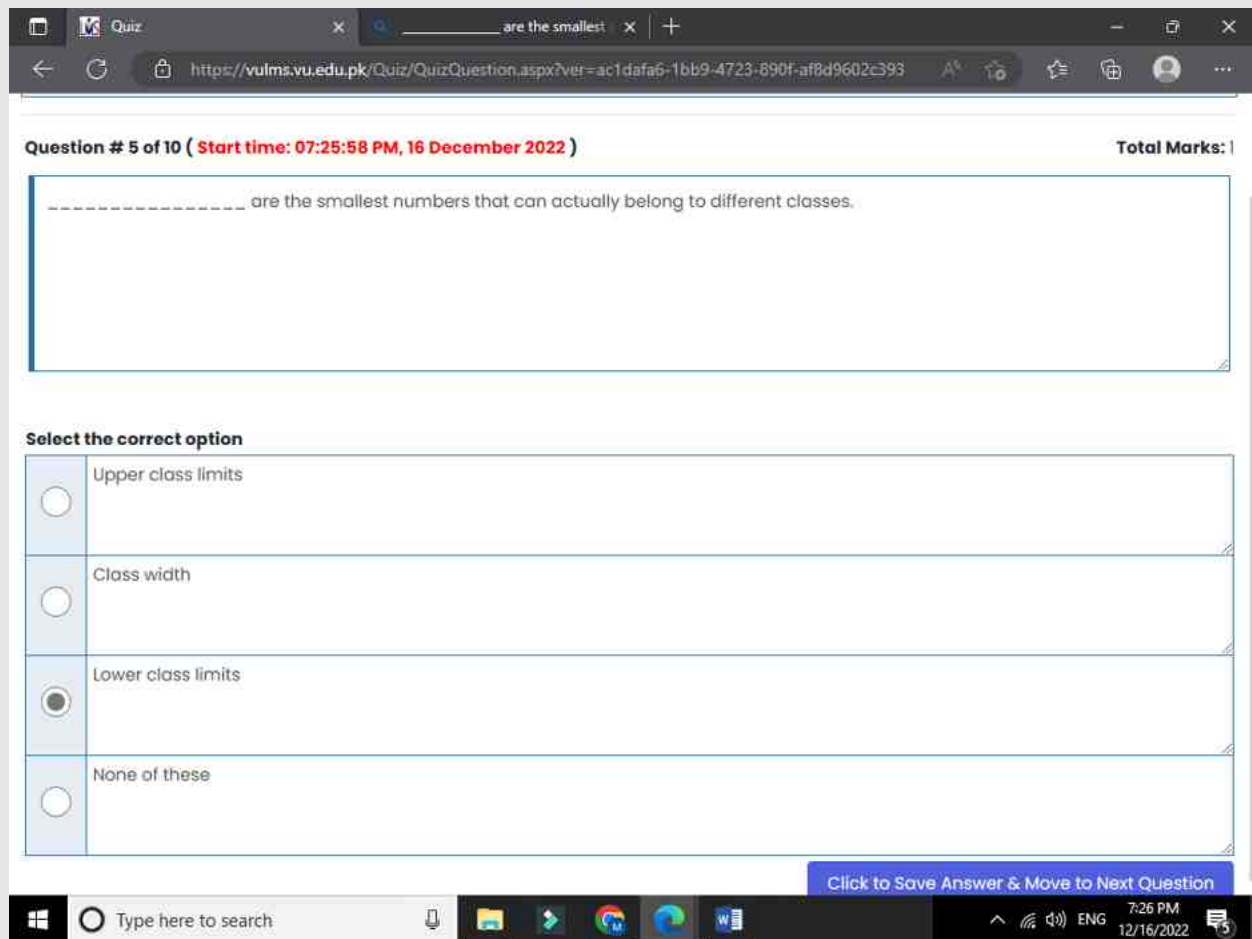
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7:25 PM 12/16/2022

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For Paid Quiz contact on 03044756496

_____ are the smallest numbers that can actually belong to different classes.



The screenshot shows a web browser window with a quiz interface. The address bar shows the URL <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=ac1dafa6-1bb9-4723-890f-af8d9602c393>. The page title is "Quiz". The question is "Question # 5 of 10 (Start time: 07:25:58 PM, 16 December 2022)" with a "Total Marks: 1" indicator. The question text is "_____ are the smallest numbers that can actually belong to different classes." Below the question is a text input field. Underneath is a section titled "Select the correct option" with four radio button options: "Upper class limits", "Class width", "Lower class limits", and "None of these". The "Lower class limits" option is selected. At the bottom right of the question area is a blue button that says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the screen, showing the search bar, taskbar icons, and system tray with the time 7:26 PM and date 12/16/2022.

Question # 5 of 10 (Start time: 07:25:58 PM, 16 December 2022) Total Marks: 1

_____ are the smallest numbers that can actually belong to different classes.

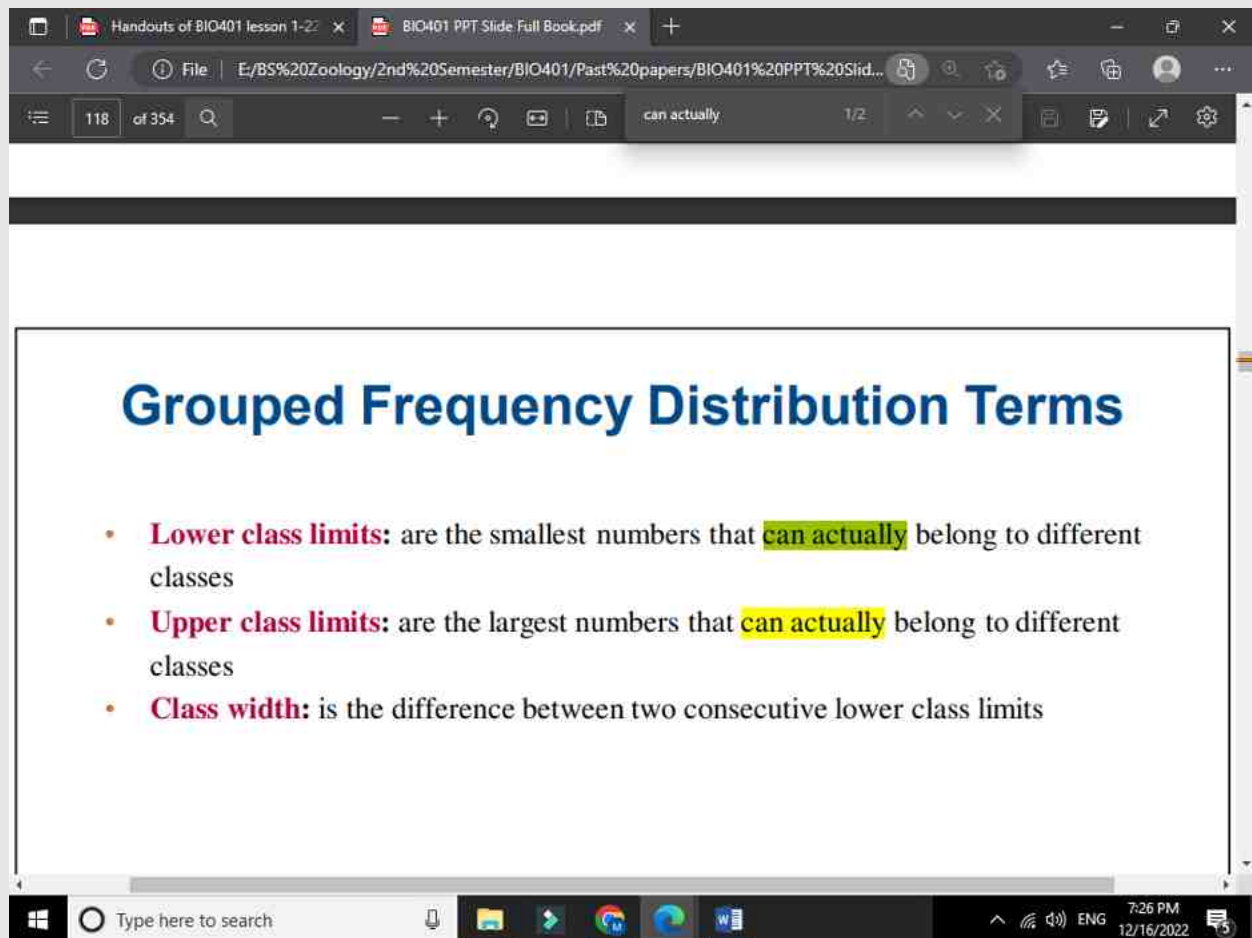
Select the correct option

- ☐ Upper class limits
- ☐ Class width
- ☒ Lower class limits
- ☐ None of these

Click to Save Answer & Move to Next Question

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The screenshot shows a presentation slide titled "Grouped Frequency Distribution Terms" in a blue font. The slide is displayed within a web browser window. The browser's address bar shows a file path: "E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid...". The presentation software interface includes a search bar with the text "can actually" and a slide counter showing "118 of 354". The Windows taskbar at the bottom features a search bar with the text "Type here to search", several application icons, and a system tray with the date "12/16/2022" and time "7:26 PM".

Grouped Frequency Distribution Terms

- **Lower class limits:** are the smallest numbers that **can actually** belong to different classes
- **Upper class limits:** are the largest numbers that **can actually** belong to different classes
- **Class width:** is the difference between two consecutive lower class limits

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For Paid Quiz contact on 03044756496

If the random variable X can have only countable many values $x_1, x_2, \dots$, we say, that it has a?

The screenshot shows a web browser window with a quiz interface. The address bar shows the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=77925a15-f7ad-4405-9886-0f548e211ace>. The browser tabs include 'Quiz', 'If the random variable X can hav...', and 'Random Variable [Definition, Ty...'. The quiz question is 'Question # 6 of 10 (Start time: 07:26:52 PM, 16 December 2022)' with 'Total Marks: 1'. The question text is 'If the random variable X can have only countable many values $x_1, x_2, \dots$, we say, that it has a?'. Below the question is a text input field. Underneath is a section titled 'Select the correct option' with four radio button options: 'Equal distribution', 'Continuous distributaion', 'discrete distribution' (which is selected), and 'Series distribution'. At the bottom right of the question area is a button that says 'Click to Save Answer & Move to Next Question'. The Windows taskbar is visible at the bottom with the search bar and various application icons.

Question # 6 of 10 (Start time: 07:26:52 PM, 16 December 2022) Total Marks: 1

If the random variable X can have only countable many values $x_1, x_2, \dots$, we say, that it has a?

Select the correct option

- ☐ Equal distribution
- ☐ Continuous distributaion
- ☒ discrete distribution
- ☐ Series distribution

Click to Save Answer & Move to Next Question

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For Paid Quiz contact on 03044756496

Has the same shape and the same horizontal scale as the corresponding frequency histogram.

The screenshot shows a web browser window with the URL <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=5254e5b1-dca7-45c0-949b-f86a92851ccc>. The page title is "BIO401 - Biostatistics (Quiz No.1)". The quiz start time is "07:23 PM, 16 December 2022". The question is "Question # 7 of 10 (Start time: 07:27:46 PM, 16 December 2022)" with "Total Marks: 1". The question text is "Has the same shape and the same horizontal scale as the corresponding frequency histogram." Below the question is a section titled "Select the correct option" with two radio button options: "Relative Frequency Histogram" and "Relative Frequency Distribution". A blue button at the bottom right says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom with the search bar and system clock showing 7:28 PM on 12/16/2022.

Quiz

Has the same shape and the same horizontal scale as the corresponding frequency histogram.

Random Variable | Definition, Type, and Distribution

<https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=5254e5b1-dca7-45c0-949b-f86a92851ccc>

BIO401 - Biostatistics (Quiz No.1)

Quiz Start time: 07:23 PM, 16 December 2022

Question # 7 of 10 (Start time: 07:27:46 PM, 16 December 2022)

Total Marks: 1

Has the same shape and the same horizontal scale as the corresponding frequency histogram.

Select the correct option

☒ Relative Frequency Histogram

☐ Relative Frequency Distribution

Click to Save Answer & Move to Next Question

Type here to search

7:28 PM
12/16/2022

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For Paid Quiz contact on 03044756496

An assumption about the population parameter is ———

The screenshot shows a web browser window with the following details:

- Browser Tabs:** "Quiz", "An assumption about the popul...", "Random Variable | Definition, Ty..."
- Address Bar:** <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=75cbb008-2b82-4232-a620-8c30b9e20a66>
- Question Header:** "Question # 8 of 10 (Start time: 07:28:17 PM, 16 December 2022)" and "Total Marks: 1"
- Question Text:** "An assumption about the population parameter is -----"
- Options:** A list of four options with radio buttons: "Hypothesis", "Significance", "Probability", and "Inference". The "Hypothesis" option is selected.
- Action Button:** "Click to Save Answer & Move to Next Question"
- Taskbar:** Windows taskbar with search bar, task view, and icons for File Explorer, Edge, and Word. System tray shows "7:30 PM 12/16/2022".

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34 of 354 | search | assump

What is a Hypothesis?

An **assumption** about the population parameter.

I assume the mean SBP of participants is 120 mmHg



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The average value of a data is called

Quiz

The average value of a data is called

Random Variable | Definition, Types, and Examples

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=c0b83cb2-50f6-4257-8d5d-0355e269b5b2

Question # 9 of 10 (Start time: 07:30:22 PM, 16 December 2022) Total Marks: 1

The average value of a data is called ____

Select the correct option

☒	Mean
☐	Standard deviation
☐	Median
☐	Mode

Click to Save Answer & Move to Next Question

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7:30 PM 12/16/2022

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For Paid Quiz contact on 03044756496

**Probability sampling is divided into
_____ types**

The screenshot shows a web browser window with a quiz interface. The browser tabs include 'Quiz', 'Probability sampling is divided', and 'Random Variable | Definition, Ty'. The address bar shows the URL 'https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=92793b13-3e2a-4920-a709-d539057dc3be'. The quiz question is 'Question # 10 of 10 (Start time: 07:30:43 PM, 16 December 2022)' with 'Total Marks: 1'. The question text is 'Probability sampling is divided into _____ types'. Below the question is a section titled 'Select the correct option' with four radio button options: 7, 5, 6, and 4. The option '5' is selected. At the bottom right of the question area is a button that says 'Click to Save Answer & Move to Next Question'. The Windows taskbar is visible at the bottom with the search bar and several application icons. The system clock shows 7:31 PM on 12/16/2022.

Question # 10 of 10 (Start time: 07:30:43 PM, 16 December 2022) Total Marks: 1

Probability sampling is divided into _____ types

Select the correct option

☐ 7

☒ 5

☐ 6

☐ 4

Click to Save Answer & Move to Next Question

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Quiz

http://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=cc171379-4a2d-4734-b9f5-bd4edad2dea4

BIO401 – Biostatistics (Quiz No.1) Quiz Start Time: 07:57 PM, 16 December 2022

Question #1 of 10 (Start time: 07:57:36 PM, 16 December 2022) Total Marks: 1

_____ are the smallest numbers that can actually belong to different classes.

Select the correct option

☐	Upper class limits
☐	None of these
☒	Lower class limits
☐	Class width

Type here to search

7:57 PM 12/16/2022

For Paid Quiz contact on 03044756496

For Paid Quiz contact on 03044756496

_____ is known as “Father of Modern Statistical sciences”

The screenshot shows a web browser window with a quiz interface. The address bar displays the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=55f2d576-9646-4196-81eb-359b35f2f5a0>. The page title is "Quiz". The question is "Question # 2 of 10 (Start time: 07:57:49 PM, 16 December 2022)" with a "Total Marks: 1" indicator. The question text is "_____ is known as “Father of Modern Statistical sciences”". Below the question, there is a section titled "Select the correct option" with four radio button options: Florence Nightingale, Lady with Lamp, Sir Ronald A. Fisher, and John Graunt. The option "Sir Ronald A. Fisher" is selected. A blue button at the bottom right says "Click to Save Answer & Move to Next Question". The Windows taskbar at the bottom shows the search bar, task view, and several application icons, with the system clock displaying 7:58 PM on 12/16/2022.

Question # 2 of 10 (Start time: 07:57:49 PM, 16 December 2022) Total Marks: 1

_____ is known as “Father of Modern Statistical sciences”

Select the correct option

- ☐ Florence Nightingale
- ☐ Lady with Lamp
- ☒ Sir Ronald A. Fisher
- ☐ John Graunt

Click to Save Answer & Move to Next Question

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Quiz

http://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=66fca5f8-be5b-4309-9e98-ea734bef0158

Question # 3 of 10 (Start time: 07:59:01 PM, 16 December 2022) Total Marks: 1

The average value of a data is called ____

Select the correct option

☐	Median
☐	Standard deviation
☐	Mode
☒	Mean

Click to Save Answer & Move to Next Question

Type here to search

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“An aggregate of entities for which we have an interest at a particular time” is called

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Quiz "An aggregate of entities for whi x +

http://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=c751beae-f308-4e8e-a0db-93213fcb8816

Question # 4 of 10 (Start time: 07:59:15 PM, 16 December 2022) Total Marks: 1

"An aggregate of entities for which we have an interest at a particular time" is called

Select the correct option

☐	Sample
☐	Data
☐	Mean
☒	Population

Click to Save Answer & Move to Next Question

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7 of 270

Topic 2

Basic Terminology - I

Population

The average person thinks of a population as a collection of entities, usually people.

A population or collection of entities may, however, consist of animals, machines, people, etc. For our purposes, we define a population of entities as the largest collection of entities for which we have an interest at a particular time.

If we take a measurement of some variable on each of the entities in a population, we obtain a population of values of that variable. We may, therefore, define a **population of values as the largest collection of values of a random variable for which we have an interest** at a particular time.

If, for example, we are interested in the weights of all the children enrolled in a certain county elementary school system, our population consists of all these weights. If our interest lies only in the weights of first-grade students in the system, we have a different population—weights of first-grade students enrolled in the school system. Hence, populations are determined or defined by our sphere of interest.

Sample:

A sample may be defined simply as a part of a population. Suppose our population consists of the weights of all the elementary school children enrolled in a certain county school system. If we

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ENG 8:00 PM 12/16/2022

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**_____ type of sampling refers to
Identifying someone who meets the
criteria for inclusion in the study.**

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Quiz

type of sampling ref

http://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=a7e67b23-08ed-4758-b616-fd1a8b699b66

Question # 5 of 10 (Start time: 08:00:19 PM, 16 December 2022) Total Marks: 1

----- type of sampling refers to identifying someone who meets the criteria for inclusion in the study.

Select the correct option

☐	Non Probability sampling
☒	Snowball sampling
☐	Probability sampling
☐	Random sampling

Click to Save Answer & Move to Next Question

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4. SNOWBALL SAMPLING

- It refers to Identifying **someone who meets** the criteria for inclusion in the study.
- Selection of additional respondents is based on referrals from the initial respondents.



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**_____ type of frequency distribution
is used for data sets with few different
values**

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Quiz

_____ type of frequency dist

http://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=4015d63e-3398-4dcf-bf9e-4c151ce2e315

Question # 6 of 10 (Start time: 08:01:03 PM, 16 December 2022) Total Marks: |

_____ type of frequency distribution is used for data sets with few different values

Select the correct option

☐	Frequency histogram
☒	Ungrouped frequency distribution
☐	Grouped frequency distribution
☐	All

Click to Save Answer & Move to Next Question

Type here to search

8:02 PM 12/16/2022

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The image is a screenshot of a presentation slide displayed within a web browser. The browser's address bar shows a file path: E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid... The slide itself is titled 'Frequency Distribution' in a bold, dark red font. Below the title, there is a bulleted definition: 'A table that organizes data values into classes or intervals along with number of values that fall in each class (frequency, f).' This is followed by two numbered points: '1. Ungrouped Frequency Distribution – for data sets with few different values. Each value is in its own class.' and '2. Grouped Frequency Distribution: for data sets with many different values, which are grouped together in the classes.' The word 'data sets' in both points is highlighted in yellow. At the bottom of the slide, the text 'Grouped and Ungrouped Frequency Distributions' is written in a large, bold, blue font. The presentation interface includes a slide counter '114 of 354' and a search bar. The Windows taskbar at the bottom shows the search bar, task view button, and several application icons, with the system clock indicating 8:02 PM on 12/16/2022.

Frequency Distribution

- A table that organizes data values into classes or intervals along with number of values that fall in each class (frequency, f).

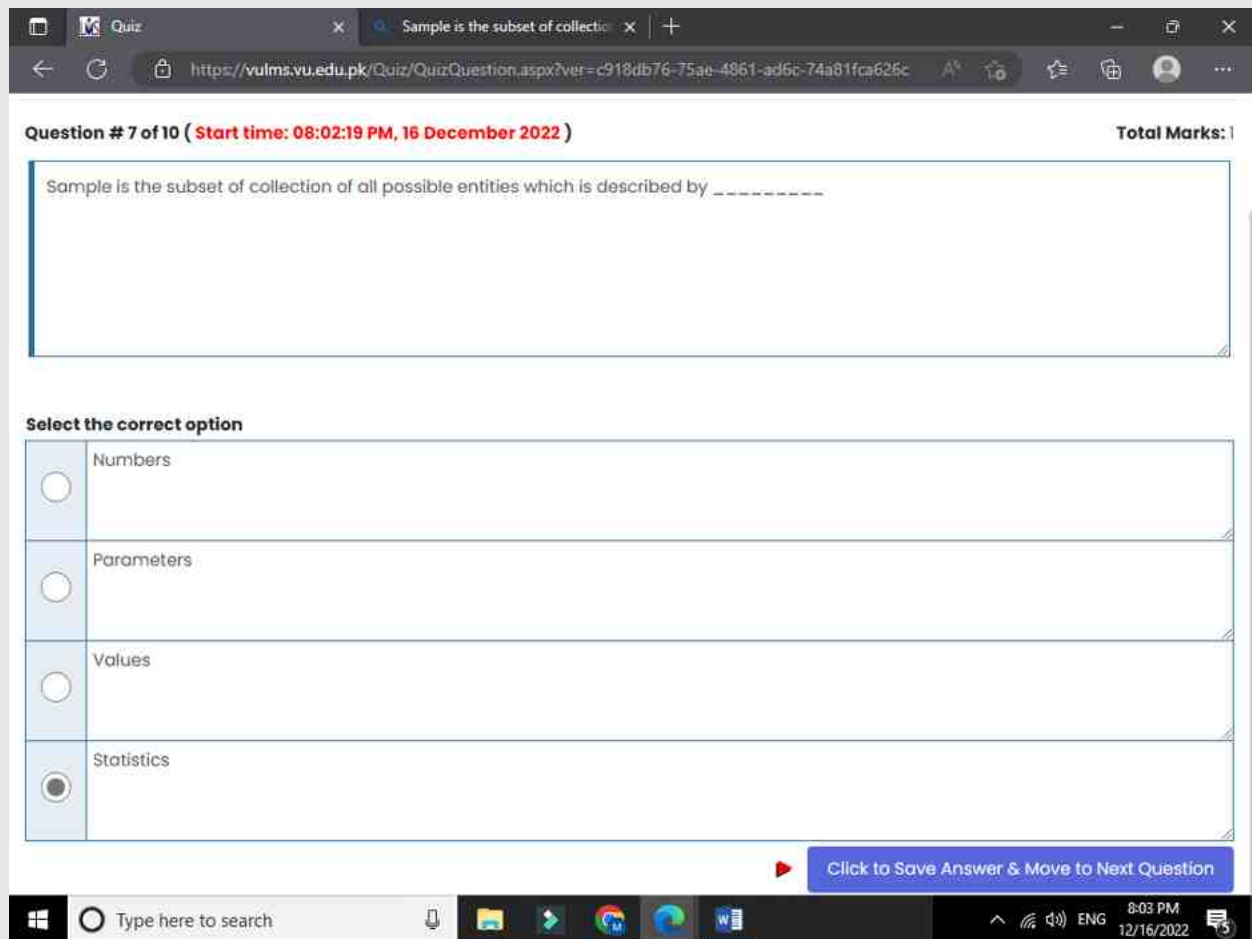
1. **Ungrouped Frequency Distribution** – for data sets with few different values. Each value is in its own class.
2. **Grouped Frequency Distribution**: for data sets with many different values, which are grouped together in the classes.

Grouped and Ungrouped Frequency Distributions

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Sample is the subset of collection of all possible entities which is described by



The screenshot shows a web browser window with a quiz interface. The address bar shows the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=c918db76-75ae-4861-ad6c-74a81fca626c>. The page title is "Sample is the subset of collection of all possible entities which is described by". The question is labeled "Question # 7 of 10 (Start time: 08:02:19 PM, 16 December 2022)" and "Total Marks: 1". The question text is "Sample is the subset of collection of all possible entities which is described by _____". Below the question, there is a section titled "Select the correct option" with four radio button options: "Numbers", "Parameters", "Values", and "Statistics". The "Statistics" option is selected. At the bottom right, there is a button that says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom, showing the search bar and various application icons.

Question # 7 of 10 (Start time: 08:02:19 PM, 16 December 2022) Total Marks: 1

Sample is the subset of collection of all possible entities which is described by _____

Select the correct option

- ☐ Numbers
- ☐ Parameters
- ☐ Values
- ☒ Statistics

Click to Save Answer & Move to Next Question

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The screenshot shows a presentation slide titled "Populations and Samples" with a decorative grid of colored dots in the top right corner. The slide is divided into three main sections:

- Population:** Collection of all possible entities of interest
Described by Parameters
- Sample:** Subset of collection
Described by Statistics
- Statistical Inference**
Art and science of using samples to make conclusions about populations.

The slide is displayed within a web browser window. The browser's address bar shows the file path: E:/BS%20Zoology/2nd%20Semester/BIO401/Past%20papers/BIO401%20PPT%20Slid... The browser tabs include "Handouts of BIO401 lesson 1-22", "BIO401 PPT Slide Full Book.pdf", and "BIF101 Handouts PDF FULL BO...". The Windows taskbar at the bottom shows the search bar, task view button, and several application icons. The system clock indicates 8:03 PM on 12/16/2022.

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A discrete variable is:

The screenshot shows a web browser window with a single tab titled "A discrete variable is: Search". The address bar displays the URL "https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=6fef2ed4-9c63-4e72-bb9e-4ffcad6d7d90". The page content includes a header for "Question # 8 of 10" with a start time of "08:03:35 PM, 16 December 2022" and a "Total Marks: 1" indicator. The question text is "A discrete variable is:". Below this is a large text input area. Further down, the instruction "Select the correct option" is followed by a list of four options, each with a radio button: "Height", "Skull circumference", "The number of daily admissions in a hospital", and "Weight". The third option, "The number of daily admissions in a hospital", is selected. At the bottom right of the question area is a blue button that says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom, showing the search bar, taskbar icons, and system tray with the time "8:04 PM" and date "12/16/2022".

Question # 8 of 10 (Start time: 08:03:35 PM, 16 December 2022) Total Marks: 1

A discrete variable is:

Select the correct option

- ☐ Height
- ☐ Skull circumference
- ☒ The number of daily admissions in a hospital
- ☐ Weight

Click to Save Answer & Move to Next Question

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Types of Quantitative Variables

A discrete variable

is characterized by gaps or interruptions in the values that it can assume.

For example:

- The number of daily admissions to a general hospital.
- The number of decayed, missing, filled teeth per child.
- ...
- ... in an elementary school.

A continuous variable

can assume any value within a specified relevant interval of values assumed by the variable.

For example:

- Height,
- weight,
- skull circumference.

No matter how close together the observed heights of two people, we can find another person whose height falls somewhere in between.

Type here to search ENG 8:04 PM 12/16/2022

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Purpose of stratified random sampling is:

The screenshot shows a web browser window with a quiz titled "Purpose of stratified random sampling". The question is "Purpose of stratified random sampling is:". Below the question is a text input field. Underneath the input field, it says "Select the correct option". There are four radio button options: "Administrative convenience field offices", "All", "To insure representation of each strata, oversample smaller population groups.", and "Sampling problems may differ in each strata". The "All" option is selected. At the bottom right of the question area is a blue button that says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the screen.

Question # 9 of 10 (Start time: 08:04:44 PM, 16 December 2022) Total Marks: 1

Purpose of stratified random sampling is:

Select the correct option

- ☐ Administrative convenience field offices
- ☒ All
- ☐ To insure representation of each strata, oversample smaller population groups.
- ☐ Sampling problems may differ in each strata

Click to Save Answer & Move to Next Question

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47 of 354

Stratified Sampling - Purposes:

- To insure representation of each strata, oversample smaller population groups.
- Administrative convenience -- field offices.
- Sampling problems may differ in each strata.
- Increase precision (lower variance) if strata are homogeneous within (like blocking).

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Quiz Purpose of stratified random sampling

http://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=52e78b16-3430-4a61-8aaa-1e4078f6c4cc

Question # 10 of 10 (Start time: 08:05:52 PM, 16 December 2022) Total Marks: 1

Mean of values 115, 110, 119, 117, 121 and 126 is:

Select the correct option

☐	119
☐	120
☒	118
☐	117

Click to Save Answer & Move to Next Question

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The drawing of inferences about a body of data, when only a part of data is observed is called?

The screenshot shows a web browser window with a quiz page. The address bar shows the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=e76327e1-b9b3-4c5f-b6c2-8435c105e998>. The page title is "The drawing of inferences about". The question is "Question # 1 of 10 (Start time: 06:37:47 PM, 17 December 2022)" and the total marks are 1. The question text is "The drawing of inferences about a body of data, when only a part of data is observed is called?". Below the question is a list of four options: "Sampling", "All given", "Descriptive data", and "Statistics". The "Statistics" option is selected. A blue button at the bottom right says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom with the search bar and various icons.

Quiz

The drawing of inferences about

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=e76327e1-b9b3-4c5f-b6c2-8435c105e998

Question # 1 of 10 (Start time: 06:37:47 PM, 17 December 2022) Total Marks: 1

The drawing of inferences about a body of data, when only a part of data is observed is called?

Select the correct option

- ☐ Sampling
- ☐ All given
- ☐ Descriptive data
- ☒ Statistics

Click to Save Answer & Move to Next Question

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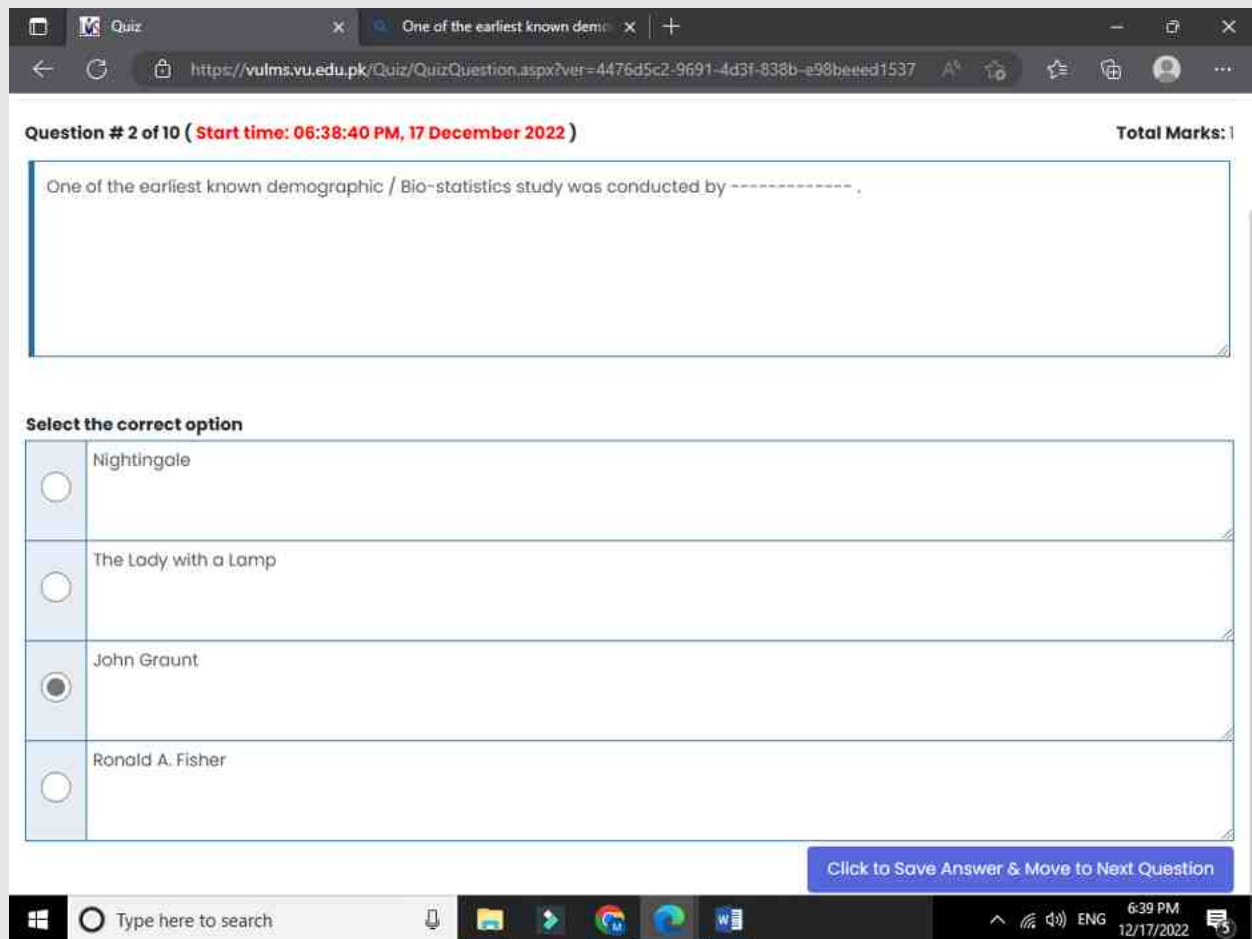
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One of the earliest known demographic / Bio-statistics study was conducted by –

_____ .



The screenshot shows a web browser window with a quiz interface. The browser's address bar displays the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=4476d5c2-9691-4d3f-838b-e98beed1537>. The page title is "One of the earliest known demographic / Bio-statistics study was conducted by -----". The question is labeled "Question # 2 of 10 (Start time: 06:38:40 PM, 17 December 2022)" and the total marks are "Total Marks: 1". The question text is "One of the earliest known demographic / Bio-statistics study was conducted by -----". Below the question is a section titled "Select the correct option" with four radio button options: "Nightingale", "The Lady with a Lamp", "John Graunt", and "Ronald A. Fisher". The "John Graunt" option is selected. At the bottom right of the question area is a button that says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the screen, showing the search bar and several application icons.

Quiz

One of the earliest known demographic / Bio-statistics study was conducted by -----

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=4476d5c2-9691-4d3f-838b-e98beed1537

Question # 2 of 10 (Start time: 06:38:40 PM, 17 December 2022) Total Marks: 1

One of the earliest known demographic / Bio-statistics study was conducted by -----

Select the correct option

☐ Nightingale

☐ The Lady with a Lamp

☒ John Graunt

☐ Ronald A. Fisher

Click to Save Answer & Move to Next Question

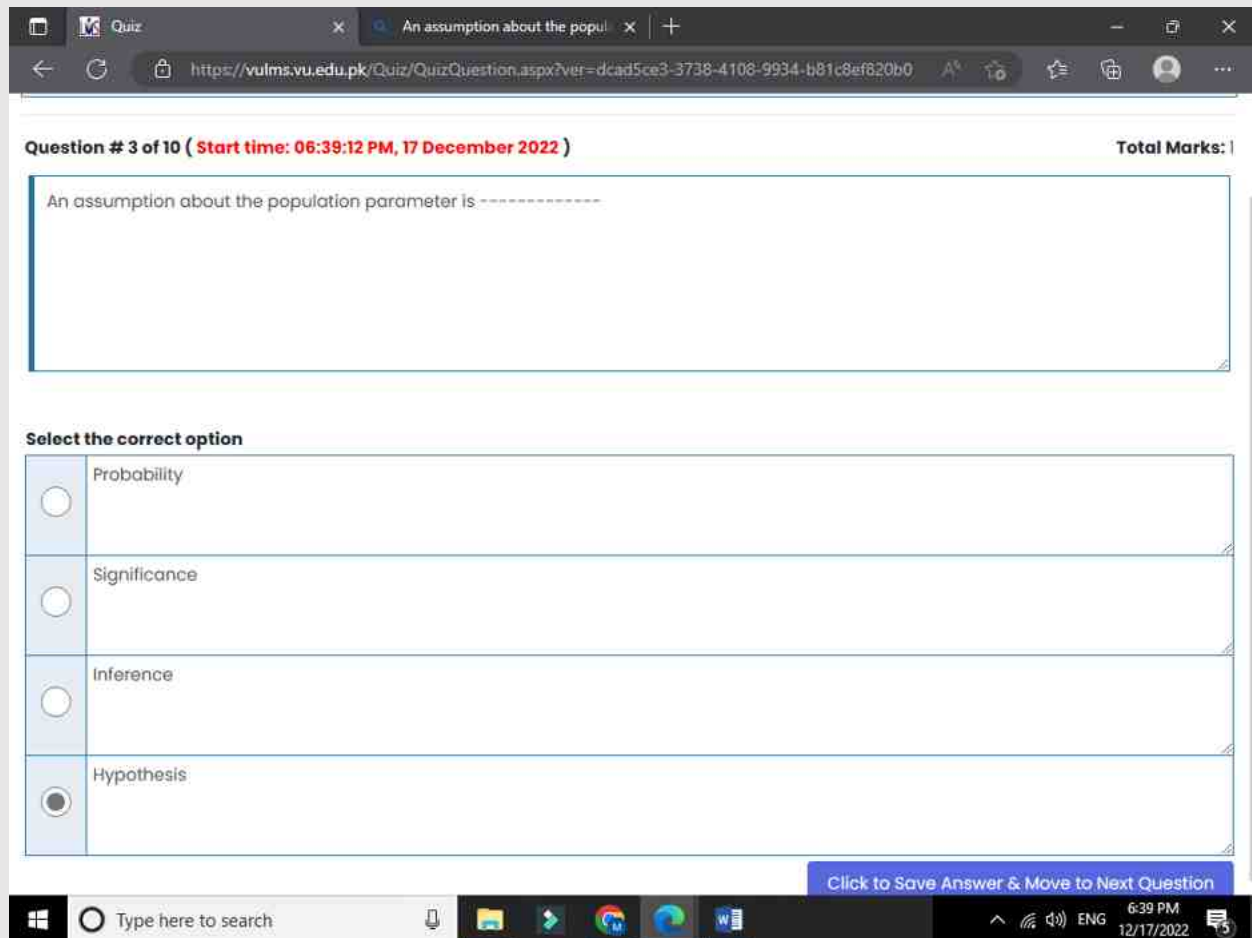
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An assumption about the population parameter is ———



The screenshot shows a web browser window with a quiz interface. The browser's address bar displays the URL <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=dcad5ce3-3738-4108-9934-b81c8ef820b0>. The page title is "An assumption about the popul...". The quiz question is labeled "Question # 3 of 10 (Start time: 06:39:12 PM, 17 December 2022)" and has a "Total Marks: 1" indicator. The question text is "An assumption about the population parameter is -----". Below the question is a section titled "Select the correct option" with four radio button choices: "Probability", "Significance", "Inference", and "Hypothesis". The "Hypothesis" option is selected. At the bottom right of the question area is a blue button that says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the screen, showing the search bar, task view button, and several application icons (File Explorer, Edge, Word, etc.). The system clock in the bottom right corner shows "6:39 PM 12/17/2022".

Question # 3 of 10 (Start time: 06:39:12 PM, 17 December 2022) Total Marks: 1

An assumption about the population parameter is -----

Select the correct option

- ☐ Probability
- ☐ Significance
- ☐ Inference
- ☒ Hypothesis

Click to Save Answer & Move to Next Question

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Which case is true for simple random sampling?

Quiz

Which case is true for simple random sampling?

Question # 4 of 10 (Start time: 06:39:41 PM, 17 December 2022) Total Marks: 1

Which case is true for simple random sampling?

Select the correct option

☐	None
☐	Can sample with replacement
☒	Can sample without replacement
☐	Can sample with or without replacement

Click to Save Answer & Move to Next Question

Type here to search

6:41 PM 12/17/2022

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For Paid Quiz contact on 03044756496

The _____ is the middle number.

The screenshot shows a web browser window with the address bar displaying <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=04739033-4e7f-421d-9316-6ab779612bb8>. The page title is "Quiz". The main content area displays "Question # 5 of 10 (Start time: 06:41:20 PM, 17 December 2022)" and "Total Marks: 1". The question text is "The _____ is the middle number." Below the question is a large text input field. Underneath the input field, the instruction "Select the correct option" is followed by a list of four options, each with a radio button: "population", "median", "mode", and "sample". The "median" option is selected. At the bottom right of the question area, there is a blue button that says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the screen, showing the search bar, taskbar icons, and system tray with the time 6:41 PM and date 12/17/2022.

Question # 5 of 10 (Start time: 06:41:20 PM, 17 December 2022) Total Marks: 1

The _____ is the middle number.

Select the correct option

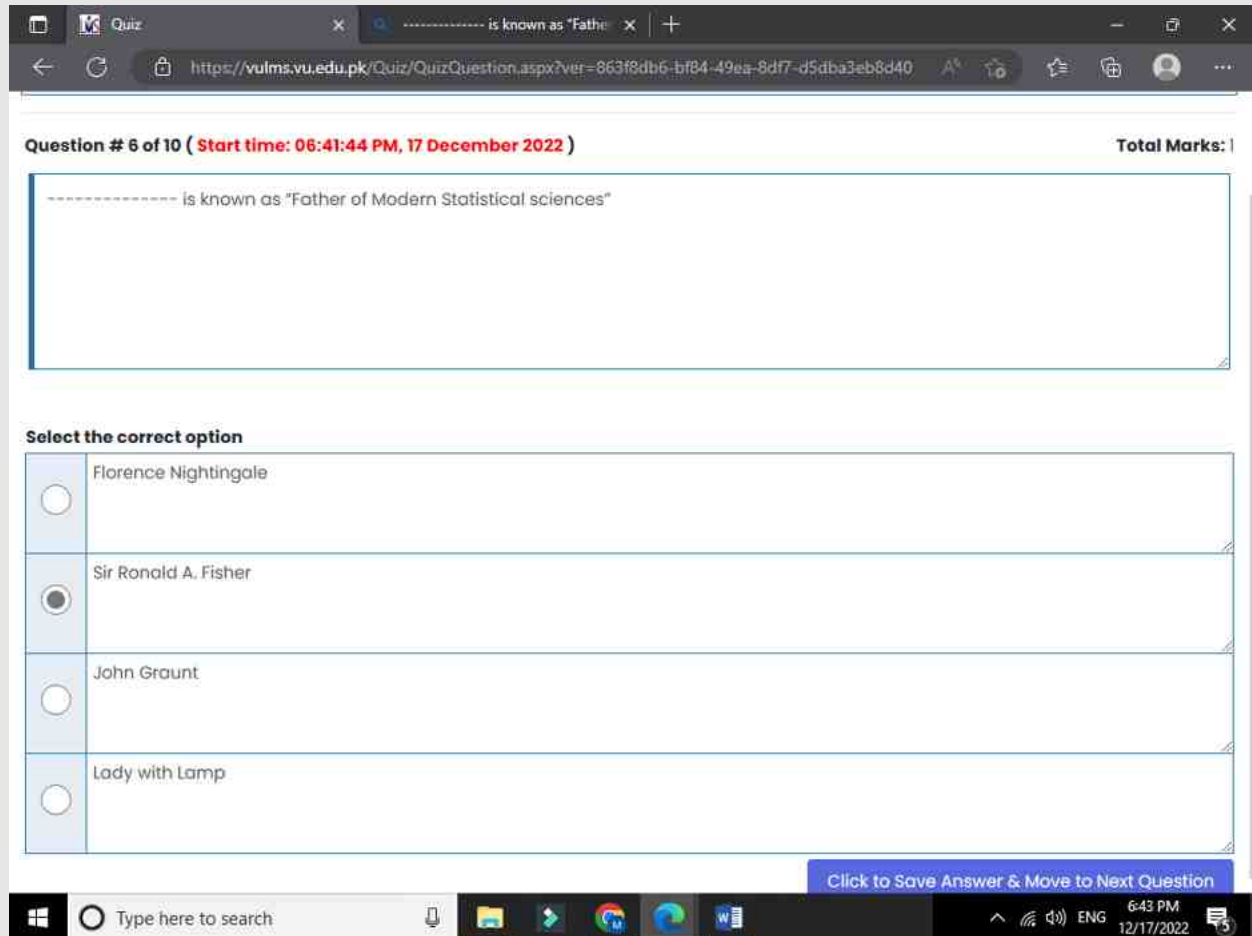
- ☐ population
- ☒ median
- ☐ mode
- ☐ sample

Click to Save Answer & Move to Next Question

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_____ is known as “Father of Modern Statistical sciences”



The screenshot shows a web browser window with a quiz interface. The address bar displays the URL: <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=863f8db6-bf84-49ea-8df7-d5dba3eb8d40>. The page title is "Quiz". The question is labeled "Question # 6 of 10 (Start time: 06:41:44 PM, 17 December 2022)" and has a "Total Marks: 1" indicator. The question text is "_____ is known as 'Father of Modern Statistical sciences'". Below the question is a large text input field. Underneath the input field, there is a section titled "Select the correct option" with four radio button options: "Florence Nightingale", "Sir Ronald A. Fisher", "John Graunt", and "Lady with Lamp". The "Sir Ronald A. Fisher" option is selected. At the bottom right of the question area, there is a blue button that says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the browser window, showing the search bar, taskbar icons, and system tray with the time 6:43 PM and date 12/17/2022.

Question # 6 of 10 (Start time: 06:41:44 PM, 17 December 2022) Total Marks: 1

_____ is known as "Father of Modern Statistical sciences"

Select the correct option

- ☐ Florence Nightingale
- ☒ Sir Ronald A. Fisher
- ☐ John Graunt
- ☐ Lady with Lamp

Click to Save Answer & Move to Next Question

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Quiz

..... is known as "Father"

http://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=4185bd4a-653b-443b-865e-70fd424f1063

Question # 7 of 10 (Start time: 06:42:59 PM, 17 December 2022) Total Marks: 1

Mean of values 115, 110, 119, 117, 121 and 126 is:

Select the correct option

☒	118
☐	119
☐	117
☐	120

Click to Save Answer & Move to Next Question

Type here to search

6:43 PM 12/17/2022

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Quiz

..... is known as "Father"

http://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=65905815-e8d1-487e-99f6-7cb078f569e8

Question # 8 of 10 (Start time: 06:43:13 PM, 17 December 2022) Total Marks: 1

Example of simple random sampling is:

Select the correct option

☐	Client assessment of quality of service
☐	Small service agency
☒	All
☐	Get list of clients over past year

Click to Save Answer & Move to Next Question

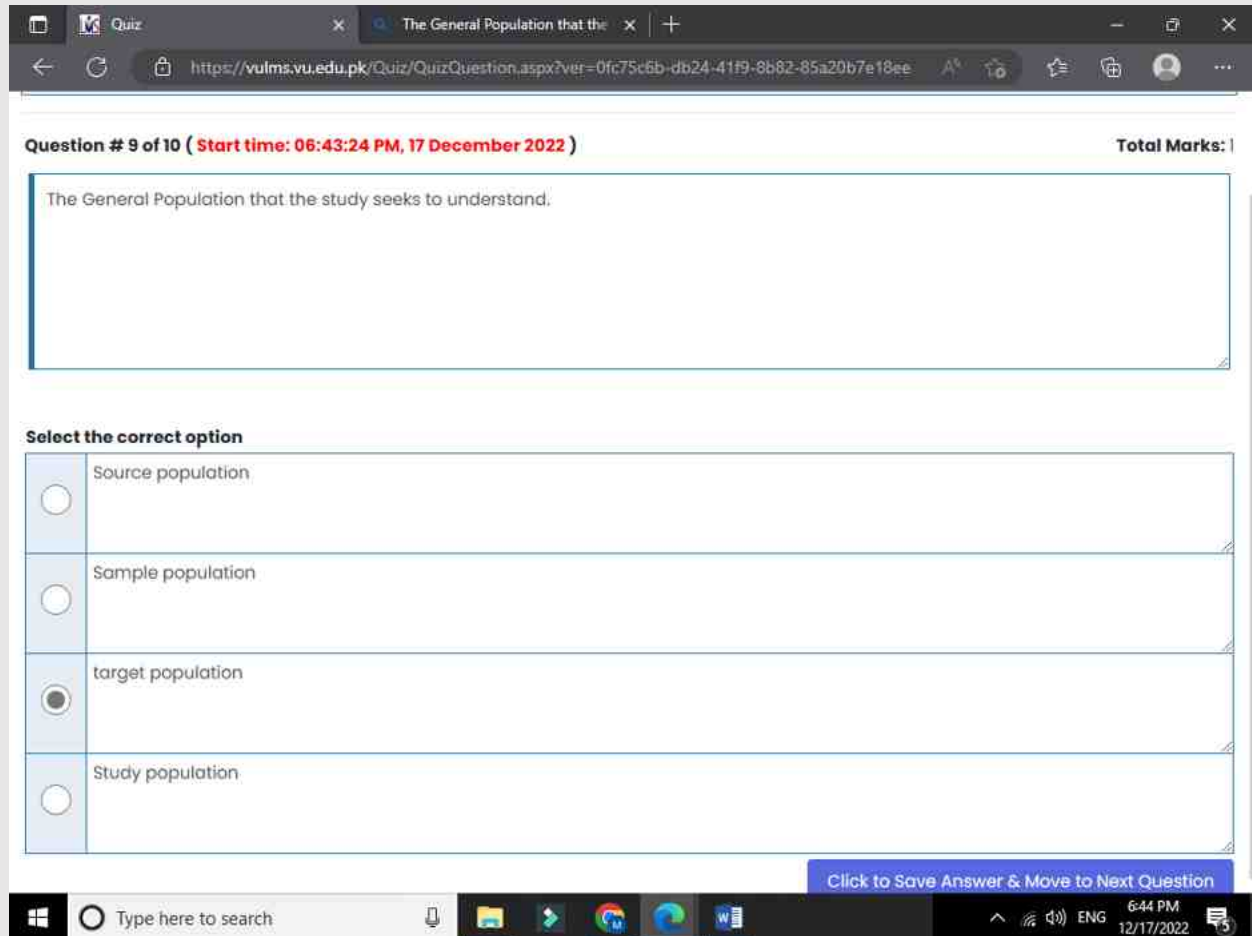
Type here to search

6:43 PM 12/17/2022

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The General Population that the study seeks to understand.



The screenshot shows a web browser window with a quiz interface. The browser's address bar displays the URL <https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=0fc75c6b-db24-41f9-8b82-85a20b7e18ee>. The page title is "The General Population that the study seeks to understand." The question is labeled "Question # 9 of 10 (Start time: 06:43:24 PM, 17 December 2022)" and has a "Total Marks: 1" indicator. The question text is "The General Population that the study seeks to understand." Below the question, there is a section titled "Select the correct option" with four radio button options: "Source population", "Sample population", "target population", and "Study population." The "target population" option is selected. A blue button at the bottom right of the question area says "Click to Save Answer & Move to Next Question". The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray with the time 6:44 PM and date 12/17/2022.

Question # 9 of 10 (Start time: 06:43:24 PM, 17 December 2022) Total Marks: 1

The General Population that the study seeks to understand.

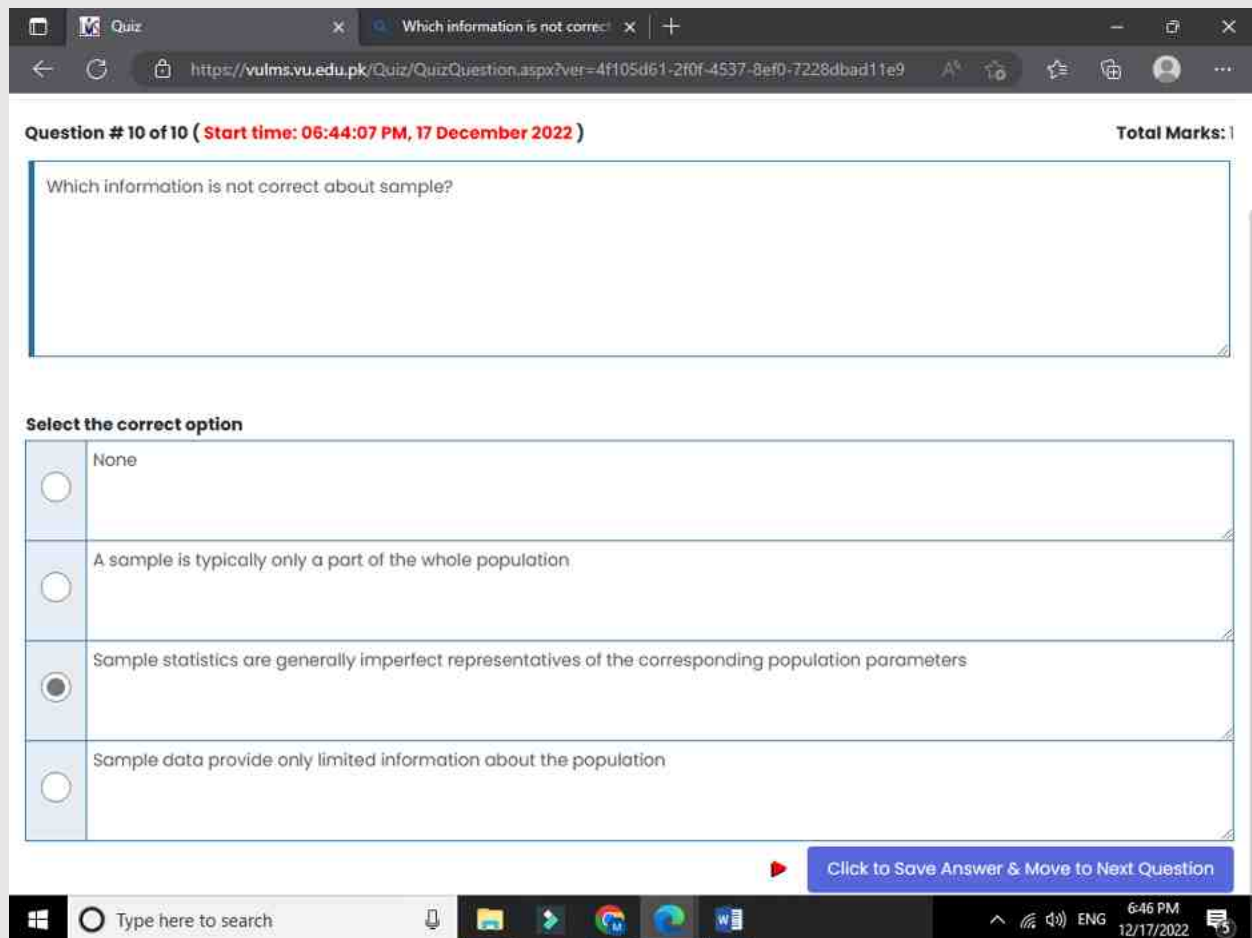
Select the correct option

- ☐ Source population
- ☐ Sample population
- ☒ target population
- ☐ Study population

Click to Save Answer & Move to Next Question

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The screenshot shows a web browser window with a quiz interface. The address bar shows the URL: <http://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=4f105d61-2f0f-4537-8ef0-7228dbad11e9>. The page title is "Which information is not correct?". The question is labeled "Question # 10 of 10 (Start time: 06:44:07 PM, 17 December 2022)" and "Total Marks: 1". The question text is "Which information is not correct about sample?". Below the question, there is a section titled "Select the correct option" with four radio button options:

- ☐ None
- ☐ A sample is typically only a part of the whole population
- ☒ Sample statistics are generally imperfect representatives of the corresponding population parameters
- ☐ Sample data provide only limited information about the population

At the bottom right of the question area, there is a blue button that says "Click to Save Answer & Move to Next Question". The Windows taskbar is visible at the bottom of the screen.

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There is all are 100% right solved

**But there is a little chance of any
mistake**

**Please If You find any mistake then also
let us to Know**

Muhammad Zaman

03044756496

JazakAllaH

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