nityambhojani22@gnu.ac.in

NPTEL » Introduction to probability and Statistics   Announcements   About the Course   Ask a Question   Progress   Mentor   Review Assignment

Register for Certification exam

Course outline

How does an NPTEL online course work?

Week 1

- Introduction to probability and Statistics
- Types of data
- Categorical data
- Describing categorical data
- Describing Categorical data (continued)
- Practice: Week 1: Assignment 1 (Non-Graded)
- **Quiz: Week 1: Assignment 1**
- Week 1 Feedback Form: Introduction to probability and Statistics

Week 2

Week 3

DOWNLOAD VIDEOS

Text Transcripts

Books

Week 1: Assignment 1

Your last recorded submission was on 2023-02-06, 21:41 IST   Due date: 2023-02-08, 23:59 IST.

1) The following is an example of categorical data   1 point
- ⦿ Nominal
- ◯ Interval
- ◯ Ratio

2) What type of data does an Aadhar number represent?   1 point
- ⦿ Nominal
- ◯ Ordinal
- ◯ Interval
- ◯ Ratio

3) What type of data does a pin code represent?   1 point
- ⦿ Nominal
- ◯ Ordinal
- ◯ Interval
- ◯ Ratio

4) What type of data does age of a person represent?   1 point
- ◯ Nominal
- ◯ Ordinal
- ◯ Interval
- ⦿ Ratio

5) At the end of a taxi ride you are asked to rate the experience from bad to very good. What type of data is it   1 point
- ◯ Nominal data – cross sectional
- ⦿ Ordinal data – Cross sectional
- ◯ Nominal data – time series
- ◯ Ordinal data – time series

6) Out of 500 seats, the ruling party has 300 seats. Which chart would you use to represent this data?   1 point
- ⦿ Pie chart
- ◯ Horizontal bar chart
- ◯ Vertical bar chart
- ◯ Histogram

7) Out of 50 people surveyed, 25 strongly agreed to the idea, 20 just agreed while 5 did not agree. What chart would you use to represent this data?   1 point
- ◯ Pie chart
- ⦿ bar chart
- ◯ Histogram

A cricketer who had scored 6000 runs in tests scored 3600 runs on the leg side and 2400 in the off side. You want the viewer to decide whether she is an off side or a leg side player. If you used a pie chart for this data, what are the angles?

Hint: if your answer is 100°, just write 100

8) pie chart angle(3600)_____   1 point
`216`

9) pie chart angle(2400)_____   1 point
`144`

Out of 180 users, 42 used Internet explorer, 60 used Mozilla Firefox and 78 used Google chrome. What are the angles if you represented this data using a pie chart?

Hint: if your answer is 100°, just write 100

10) Pie chart angle (explorer)_____   1 point
`94.4`

11) Pie chart angle (Mozilla Firefox)_____   1 point
`133.3`

12) Pie chart angle (Google chrome)_____   1 point
`162.2`

13) A student secured 85% in Mathematics, 70% in Science and 75% in English. Which chart would you use to represent this data? (Bar/Pie)   1 point
- ⦿ Bar Chart
- ◯ Pie Chart
- ◯ Histogram

14) Any data outside the boxes in a box plot are outliers and have to be removed   1 point
- ◯ True
- ⦿ False

15) If the median size of 1000 songs is 2MB, will they always fit in a 2GB disc   1 point
- ◯ Yes
- ⦿ No

16) Find the variance of the sample that has age of a 5 students 19, 20, 22, 16, 26? (Hint: Write your answers up to 2 decimal points)
`10`   1 point

17) The marks obtained by 15 students in an exam are 2, 90, 6, 77, 45, 54, 60, 99, 12, 27, 69, 66, 77, 12 and 17. Find the inter quartile range? Hint: Write your answer as whole numbers
`50`   1 point

The marks obtained by 15 students in an exam are 2, 91, 6, 77, 45, 54, 60, 99, 12, 27, 69, 66, 77, 12 and 17. Find the mean and variance of the sample.

18) mean of the sample _____(Hint: Write your answers up to 2 decimal points)
`39.8`   1 point

19) variance of the sample_____(Hint: Write your answers up to 2 decimal points)
`1299.05`   1 point

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers