MIDTERM EXAMINATION

Spring 2009 STA301- Statistics and Probability (Session - 1)

Which of the following is a systematic arrangement of data into rows and columns:

- ► Component bar chart
- **▶** Classification
- **▶** Tabulation
- ▶ Bar chart

Question No: 2 (Marks: 1) - Please choose one

- ▶ Greater than 1
- ► Less than 1
- ► Greater or equal to 1
- ▶ Less or equal to 1

Question No: 3 (Marks: 1) - Please choose one

If Mean = 25 & S.D is 5 then C.V is

- ▶ 100%
- **▶** 25%
 - **▶** 20%
- ▶ 10%

Question No: 4 (Marks: 1) - Please choose one

When E is an impossible event, then P(E) is:

- \triangleright 0
- ▶ 0.5
- **▶** 1
- **>** 2

Question No: 5 (Marks: 1) - Please choose one

The data for an ogive is found in which distribution:

- ► A cumulative frequency distribution
- ► A relative frequency distribution
- ► A frequency distribution
- ► A joint frequency distribution

Question No: 6 (Marks: 1) - Please choose one

Which of the following statements is true regarding a sample:

- ► It is a part of population
- ▶ It must contain at least five observations
- ► It refers to descriptive statistics
- ► It produces True value

Question No: 7 (Marks: 1) - Please choose one

Which level of measurement is required for the median:

- ► Nominal
- ► Ordinal
- ► Interval
- ▶ Ratio

Question No: 8 (Marks: 1) - Please choose one

In a the regression line $Y = a + bX + \mathcal{E}$ the variable which is non-random is:

- **▶** X
- ► Y
- ▶ Both X and Y
- ► Neither X nor Y

Question No: 9 (Marks: 1) - Please choose one

The variable plotted on the horizontal or X-axis in a scatter diagram is called the:

- ➤ Scatter variable
- ► Independent variable
- ► Dependent variable
- ► Correlation variable

Question No: 10 (Marks: 1) - Please choose one

Which is the formula of range:

 $x_m - x_0$

$$x_0 - x_n$$

$$\frac{x_0 - x_m}{2}$$

$$\frac{x_0 + x_m}{2}$$

Question No: 11 (Marks: 1) - Please choose one

The descriptive measure of dispersion that is based on the concept of a deviation about the mean is:

- ► Range
- ► Interquartile range
- ▶ Quartile deviation
- ► Standard deviation

Question No: 12 (Marks: 1) - Please choose one

Which branch of statistics deals with the techniques that are used to organize, summarize, and present the data:

- ► Advance statistics
- ► Probability statistics
- ► Descriptive statistics
- ► Inferential statistics

Question No: 13 (Marks: 1) - Please choose one

A population that can be defined as the aggregate of all the conceivable ways in which a specified event can happen is known as:

| ► Infinite popu | lation |
|--|--|
| ► Finite population | |
| ► Concrete pop | pulation |
| ► Hypothetical | population |
| Question No: 14 | (Marks: 1) - Please choose one |
| First moment about | origin is always equals to: |
| | |
| ► Mean | |
| ► Variance | |
| ► Standard | Deviation |
| ► Zero | |
| | |
| Question No: 15 | (Marks: 1) - Please choose one |
| | (Marks: 1) - Please choose one rolled, the numbers of possible sample points are: |
| | |
| | |
| When two dice are r | |
| When two dice are r ▶ 6 | |
| When two dice are r ▶ 6 ▶ 12 | |
| When two dice are r ▶ 6 ▶ 12 ▶ 24 ▶ 36 | rolled, the numbers of possible sample points are: |
| When two dice are r | rolled, the numbers of possible sample points are: (Marks: 1) - Please choose one |
| When two dice are r | rolled, the numbers of possible sample points are: |
| When two dice are r | (Marks: 1) - Please choose one of coefficient lies between : |

- ightharpoonup 0 to $^{\infty}$
- ightharpoonup 1 to +1
- \blacktriangleright +1 to $^{\infty}$

Question No: 17 (Marks: 1)

What is a sample?

Question No: 18 (Marks: 1)

What do you mean by real data?

Question No: 19 (Marks: 2)

Explain the concept of an average:

Question No: 20 (Marks: 3)

What is an average? Why it is called a "measure of central tendency" and a "measure of location"?

Question No: 21 (Marks: 5)

If distribution has mean 1403 and mode 1487, what can you say about the skewness?

Question No: 22 (Marks: 10)

First four moments of a certain distribution about Y = 17.5 are 0.3,74,45, and 12125 respectively. Find out whether the distribution is Leptokurtic or Platykurtic.

Join: http://vumonster.ning.com For Exclusive Projects, Reports & Latest Papers