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	MIDTERM EXAMINATION SPRING 2007 STA301 - STATISTICS AND PROBABILITY (Session - 5)	Marks: 30 Time: 90min

StudentID/LoginID: _____

Student Name: _____

Center Name/Code: _____

Exam Date: Tuesday, May 15, 2007

Please read the following instructions carefully before attempting any of the questions:

1. Attempt all questions. Marks are written adjacent to each question.

2. Do not ask any question about the contents of this examination from anyone.

a. If you think that there is something wrong with any of the questions, attempt it to the best of your understanding.

b. If you believe that some essential piece of information is missing, make an appropriate assumption and use it to solve the problem.

c. Write all steps, missing steps may lead to deduction of marks.

3. You are allowed to use the calculator & Statistical tables in order to solve the questions.

4. For your convenience we are providing you the following symbols,

□ **,**∩**,** $\bar{X}$ **o**r write Mean, **s,** ∫ or **sd** for standard deviation, **s**₂ ∫₂ or **sd**₂ or variance for variance, √ , □ log x ,for square root or whole square root.

****WARNING: Please note that Virtual University takes serious note of unfair means. Anyone found involved in cheating will get an `F` grade in this course.**

For Teacher's use only											
Question Marks	1	2	3	4	5	6	7	8	9	10	Total

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

Eye color of students is the example of:

- ▶ Attribute
- ▶ Discrete variable
- ▶ Continuous variable
- ▶ None of these

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

If any value in data is zero, then it is not possible to have:

- ▶ A.M
- ▶ Median
- ▶ Mode
- ▶ H.M

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

The standard deviation of c (constant) is:

- ▶ C
- ▶ C^2

- Zero
- None of these

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

Scatter diagram is expressed as:

- Curve
- Lines
- Dots
- Rectangles

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

The random variable “the number of heads” in tossing of two coins is :

- Continuous variable
- Discrete random variable
- May be discrete or continuous random variable
- None of these

Question No: 6 (Marks: 2)

Define variable and constant.

Question No: 7 (Marks: 2)

Define mutually exclusive events.

Question No: 8 (Marks: 2)

What is the mode of the letters in the Word “ALI”.

Question No: 9 (Marks: 9)

Calculate the **geometric mean** for the distribution given below:

Variable	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40
Frequency	2	5	7	13	21	16	8	3

Question No: 10 (Marks: 10)

Compute and interpret the **correlation co-efficient** for the following data:

X (height)	12	10	14	11	12	9
Y (weight)	18	17	23	19	20	15

vu78