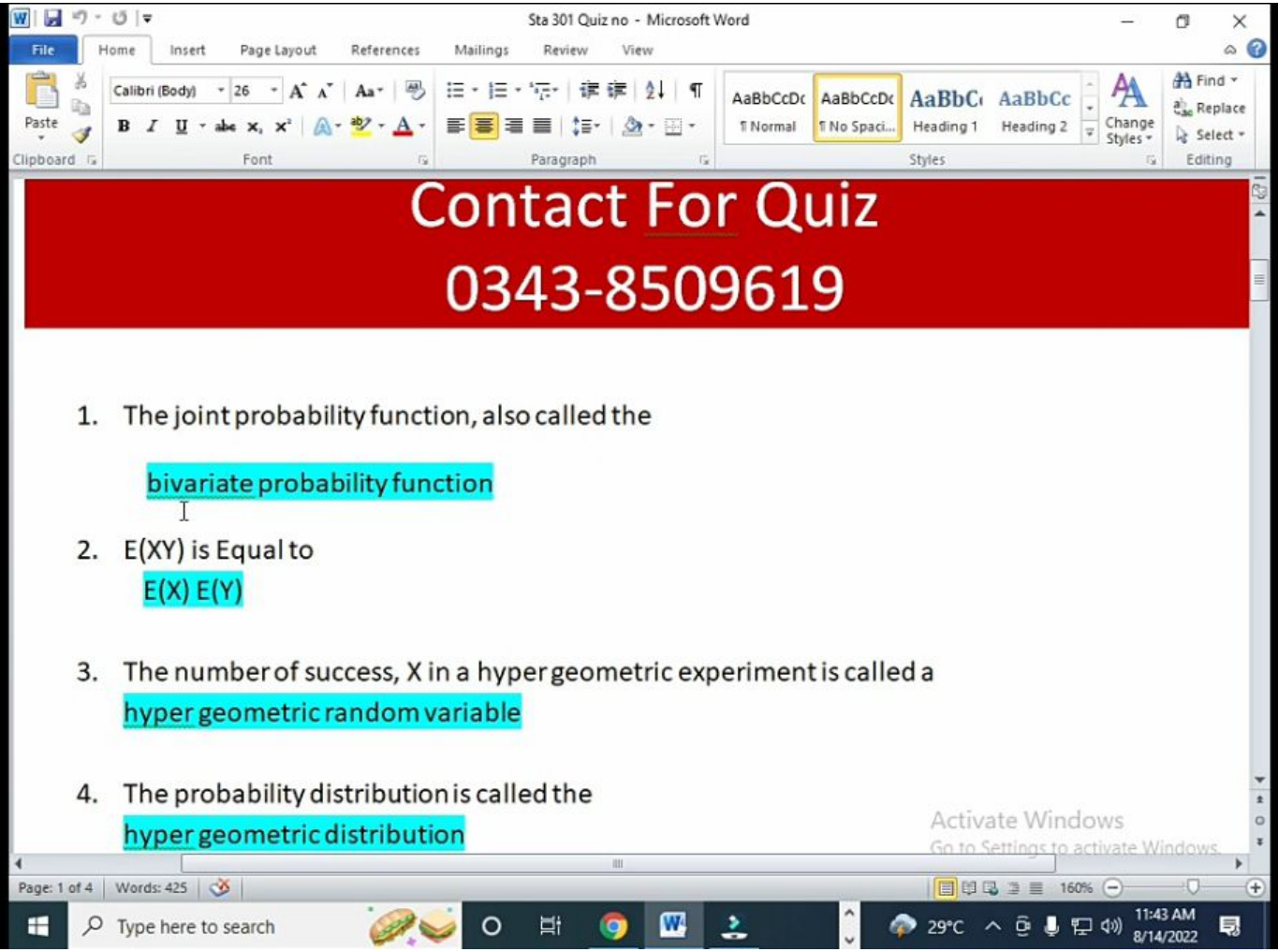
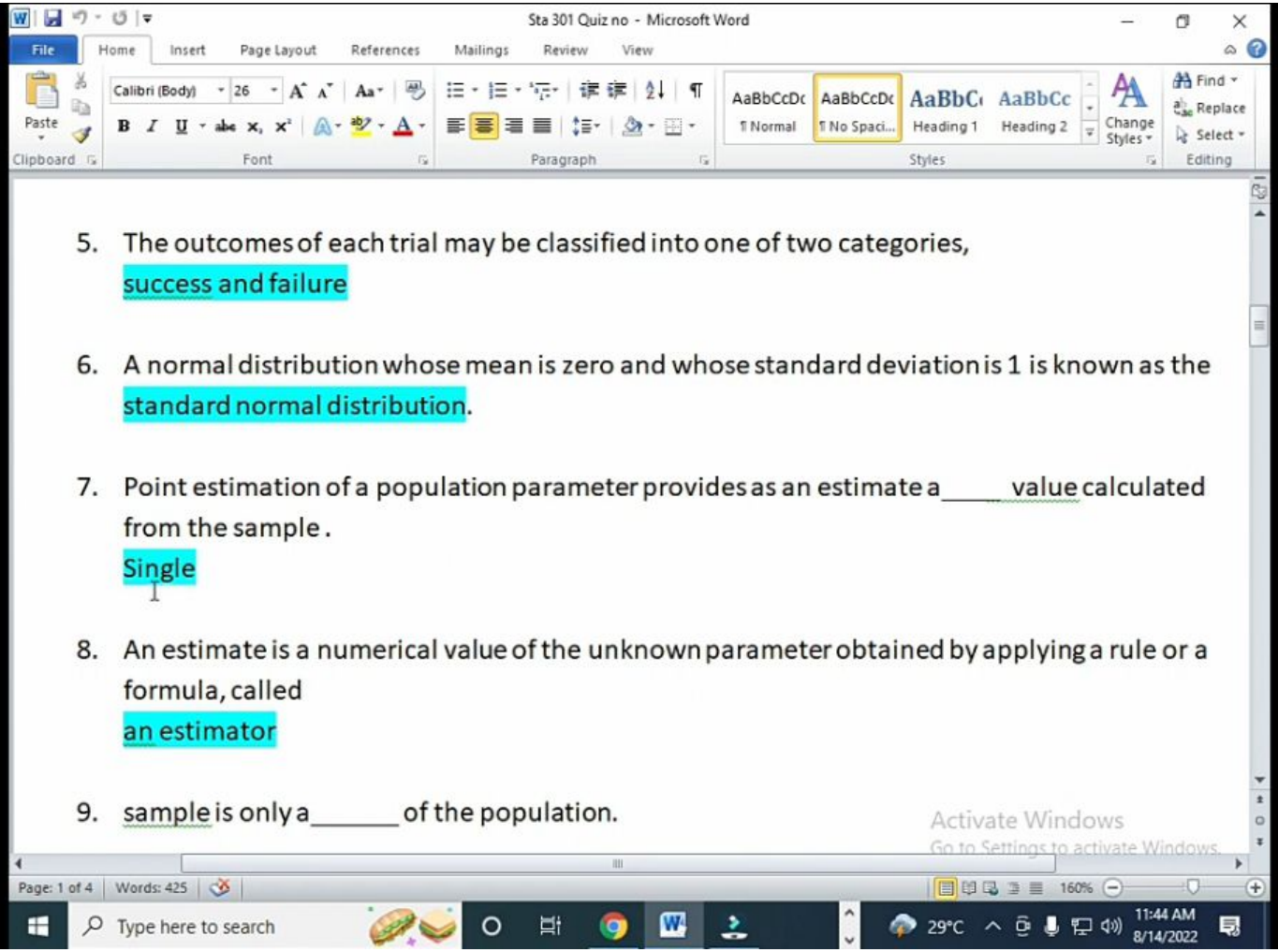
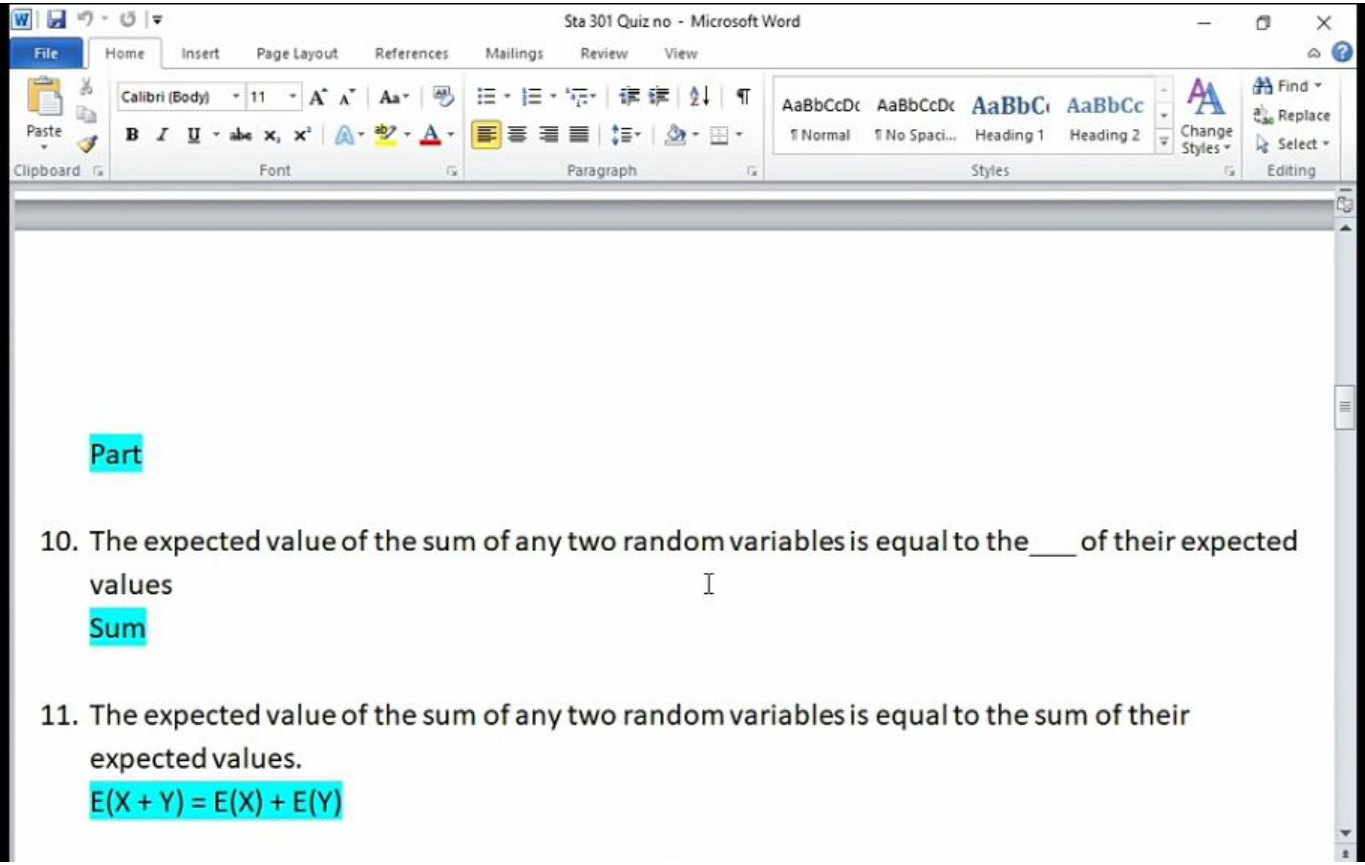

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1. The joint probability function, also called the
bivariate probability function
2. E(XY) is Equal to
E(X) E(Y)
3. The number of success, X in a hyper geometric experiment is called a
hyper geometric random variable
4. The probability distribution is called the
hyper geometric distribution
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5. The outcomes of each trial may be classified into one of two categories,
success and failure
6. A normal distribution whose mean is zero and whose standard deviation is 1 is known as the
standard normal distribution.
7. Point estimation of a population parameter provides as an estimate a_____ value calculated
from the sample .
Single
8. An estimate is a numerical value of the unknown parameter obtained by applying a rule or a
formula, called
an estimator
9. sample is only a_____ of the population.
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10. The expected value of the sum of any two random variables is equal to the___ of their expected values
Sum
11. The expected value of the sum of any two random variables is equal to the sum of their expected values.
E(X + Y) = E(X) + E(Y)

12. The probability of success changes on _____
each trial

13. The Poisson distribution is named after the French mathematician Sime'on Denis Poisson
(1781-1840)

14. The Poisson published its derivation in the year
1837.

15. The Poisson distribution has only _____ $\mu > 0$
one parameter

16. The mean and variance are equal in ___
THE POISSON DISTRIBUTION

17. The binomial distribution is a very important
discrete probability distribution

18. It was discovered by James Bernoulli about the
year 1700

19. E(4X + 5) = __

4 E(X) + 5

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20. The marginal p.d.f. of any of the_____ is obtained by integrating out the other variable from the joint p.d.f.

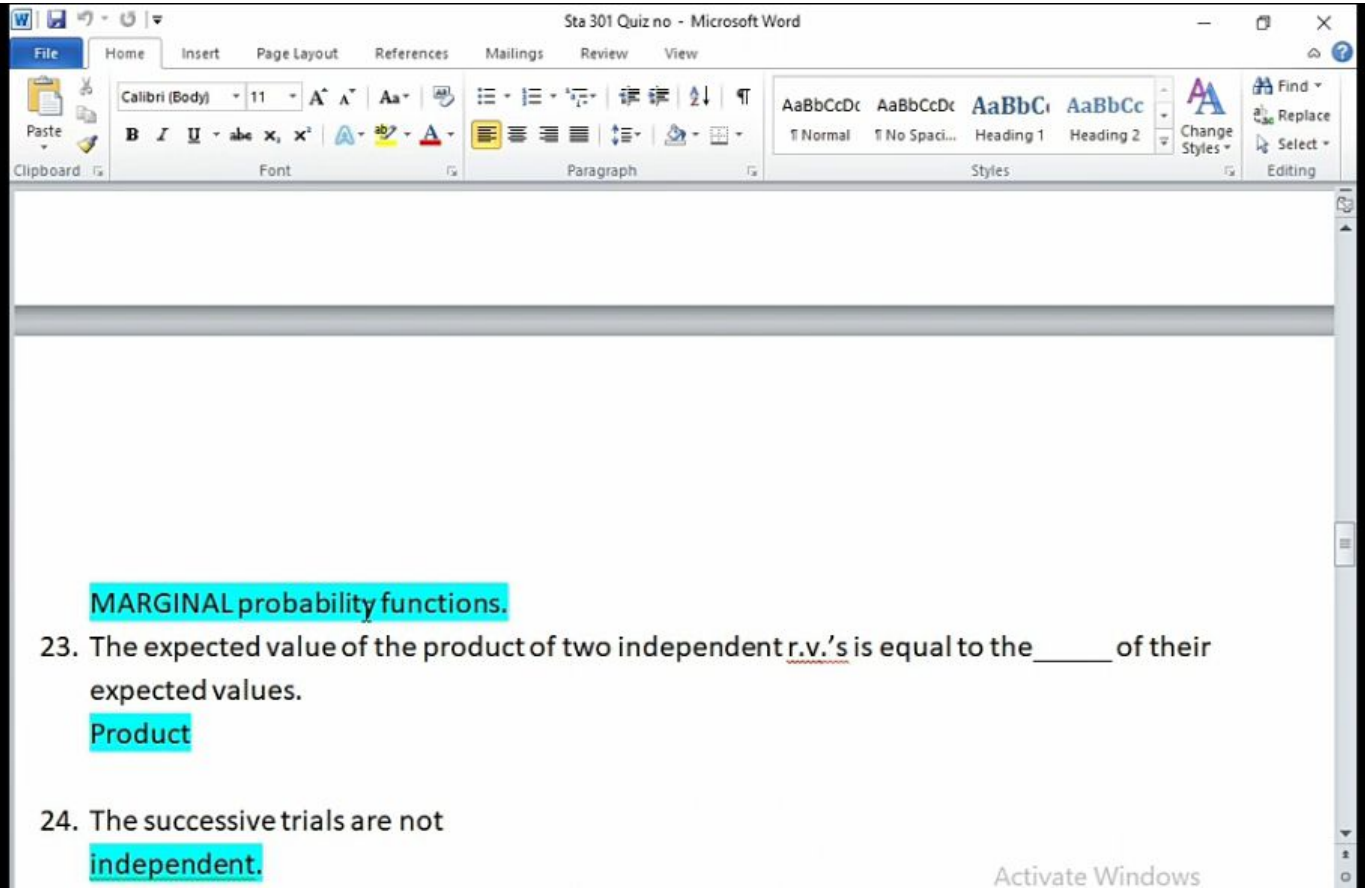
Variables

21. E(3X + 5) = 3 E(X) + 5

22. he point to be understood here is that, from the joint probability function for (X, Y), we can obtain the INDIVIDUAL probability function of X and Y. Such individual probability functions are called

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MARGINAL probability functions.
23. The expected value of the product of two independent r.v.'s is equal to the_____ of their expected values.
Product
24. The successive trials are not
independent.
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25. The hyper geometric probability distribution has _____N, n and k.

three parameters

26. _____may be defined as a physical process governed at least in part by some random mechanism

POISSON PROCESS

27. Poisson distribution can never be

negatively skewed

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