Debre Markos University

College of Natural and computational Science

Department of Statistics

Biostatistics Assignment for Health and fitness postgraduate 1st year students. (20%)

**Last Submission date: may 25/2020.**

1. Discus the application of Biostatistics in health and fitness (2 points)
2. Classify the following variables first as quantitative and qualitative second as nominal, ordinal, interval and ratio.(0.5 point each)
3. Distance run by athletes
4. Cholesterol level measures as low, moderate and high
5. Football game score
6. Speed of an athlete measured in meter per second
7. Pulse
8. Football race measured as first, second, third…
9. Give examples for ways of summarizing or describing data (3 points)
10. Give examples of Biostatistics methods enable us to conclude or generalize information from sample to population.(3 points)
11. Describe why we calculate measures of central tendency and variation and list all of each measure.(2 points)
12. State clearly with examples why we calculate coefficient of variation.(2 points)
13. Assume in Ethiopia 43,000 persons were tested for COVID-19 where 306 persons were found positive. Among COVID-19 positives 5 were died.
14. What is the probability of a randomly tested person will be COVID-19 positive?( 2 points)
15. What will be the probability of dying if a person is COVID-19 positive? (3 points)