Assignment 3

1. A weather station predicts that on Friday, Saturday, Sunday, and Monday the expected high temperatures in °C will be 18, 20, 19, and 17, respectively. What is the average temperature for the 4-day period?
   a) 19
   b) 18
   c) 17
   d) 16
   e) 15

2. The high temperatures for a week are given in Fahrenheit degrees: 62, 64, 65, 67, 68, 70, 71. What is the range of these temperatures?
   a) 9
   b) 7
   c) 10
   d) 5
   e) 8

3. Calculate the standard deviation for the following data set: 12, 14, 16, 18, 20.
   a) 3
   b) 2
   c) 1
   d) 4
   e) 5

4. The age of students in a class has been found to be 20, 22, 24, 26, 28, 30 years. What is the mean deviation for the (population) set of data?
   a) 3
   b) 5
   c) 1
   d) 2
   e) 4

5. What is a following a stress test?
   a) Practice
   b) Stress
   c) Warm-up
   d) Exercise
   e) Performance

6. Which of the following is a moral duty?
   a) Paying taxes
   b) Talking to a friend
   c) Helping those in need
   d) Playing video games
   e) Working hard

7. Mental Recall: Which of the following statements is incorrect about time management?
   a) Prioritizing tasks based on importance and urgency is crucial.
   b) Limiting distractions can improve focus and productivity.
   c) Multitasking is the key to efficient time management.
   d) Setting realistic goals and deadlines is important.
   e) Regular breaks can help maintain concentration.

8. Which of the following statements best describes the concept of "Optimality of Operation"?
   a) It is the condition where all operations are performed efficiently and effectively.
   b) It is the minimum time required to complete a task.
   c) It is the maximum possible performance of a system.
   d) It is the utilization of all available resources without waste.
   e) It is the balance between efficiency and profitability.

9. What is the effect of stress on the mood?
   a) Positive
   b) Neutral
   c) Negative
   d) Irrelevant
   e) Indeterminate

10. Which of the following statements is true regarding the effect of exercise on mood?
    a) Exercise has no effect on mood.
    b) Exercise can improve mood by releasing endorphins.
    c) Exercise can worsen mood due to increased stress.
    d) Exercise is only beneficial for people with depression.
    e) Exercise increases the risk of mood disorders.

11. The frequency distribution is constructed for the time of occurrence variable.
    a) Frequency distribution count
    b) Frequency distribution expected
    c) Frequency distribution data
    d) Frequency distribution groups
    e) Frequency distribution results

12. According to the following graph, y = 5 and x = ______.
    a) 4
    b) 10
    c) 16
    d) 20
    e) 25