Section A: Multiple Choice Questions

1. **MCQ 1:** What is the value of π (pi) to two decimal places?
a) 3.12
b) 3.14
c) 3.16
d) 3.18
2. **MCQ 2:** Solve for x: 3x - 5 = 10
a) x = 5
b) x = 6
c) x = 15
d) x = 7
3. **MCQ 3:** What is the square root of 144?
 a) 12
b) 16
c) 10
d) 14
4. **MCQ 4:** What is the value of 5! (5 factorial)?
a) 20
b) 60
c) 120
d) 24

Section B: Short Answer Questions

5. **Short Answer 1:** Explain the concept of slope in a linear equation and how it is calculated.
6. **Short Answer 2:** Solve the equation: 2(x + 3) = 20
7. **Short Answer 3:** What is the difference between a median and a mode in statistics?
8. **Short Answer 4:** Describe the process of solving a quadratic equation using the quadratic formula.

Section C: Long Answer Questions

9. **Long Answer 1:** Explain the concept of exponential growth and provide a real-world example.

10. **Long Answer 2:** Solve the following system of equations using substitution or elimination method: $2x + y = 7$ $x - y = 3$
11. **Long Answer 3:** Describe the properties of a rhombus and provide formulas to calculate its area and perimeter.
12. **Long Answer 4:** Explain the concept of probability and provide examples of how it is used in everyday life.

Section D: Competency Based Questions

13. **Competency Based Question 1:** Imagine you are planning a school event where tickets will be sold. Create a budget and pricing strategy, considering factors such as fixed costs, variable costs, and desired profit margin.
14. **Competency Based Question 2:** You are tasked with designing a garden with various geometric shapes for a landscaping project. Describe how you would calculate the area and perimeter of each shape to ensure efficient use of space and materials.
15.