Sample Exam

Professor Name

Fall 2025

1. (10 points) Question 1 This is the first question with 10 points.
   (a) (4 points) Part a This is part a worth 4 points.
   (b) (6 points) Part b This is part b worth 6 points.
       i. (3 points) Subpart i This is subpart i worth 3 points.
       ii. (3 points) Subpart ii This is subpart ii worth 3 points.

2. (15 points) Question 2 Calculate the derivative of $f(x) = x^2 + 3x + 2$.
   (a) (5 points) Part a Find $f'(x)$.
   (b) (10 points) Part b Evaluate $f'(2)$.

3. (20 points) Question 3 A more complex question with multiple parts.
   (a) (8 points) Part a First part of the question.
       i. (4 points) Subpart i First subpart.
       ii. (4 points) Subpart ii Second subpart.
   (b) (12 points) Part b Second part of the question.
       i. (6 points) Subpart i Another subpart here.
       ii. (6 points) Subpart ii Final subpart.

4. (5 points) Question 4 A simple question without parts.

5. (10 points) Question 5 What is the capital of France?
   A. London
   B. Berlin
   C. Paris
   D. Madrid

6. (10 points) Question 6 Which of the following are prime numbers? (Select all that apply)
   √ **2**
   √ **3**
   ○ 4
   √ **5**

7. (15 points) Question 7 What is $2 + 2$?
   A. 3
   B. 4
   C. 5
   D. 6

(a) (5 points) Part a Explain your answer.

(b) (10 points) Part b Which operations are commutative?

$\checkmark$ **Addition**

◯ Subtraction

$\checkmark$ **Multiplication**

◯ Division

8. Question with solution

Solution: Here is the solution box