**Exponent TEST**

**NO Calculators**

1) Check each number set belongs to.

|  |  |  |
| --- | --- | --- |
| I | Whole Numbers |  |
| II | Integers |  |
| III | Rational Numbers |  |
| IV | Irrational Numbers |  |

2) If *x* represents the amount of money in your bank account, what is the restriction on the variable?

a. b. c. d.

3) Evaluate .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| a. | 0,2 | b. | 0,02 | c. | 0,002 | d. | 2 |

4) Evaluate

a. – b. – c. d.

[4]

**Free Response Questions**

5) What is an irrational number? How can you know that a number is irrational when written in decimal form?   [2]

6) Write as a radical. [1]

7) Evaluate. Show as much work as possible. [4]  
a) b) c) 0.027-1/3  d)

8) Simplify and give your answers with positive exponents only: [8]  
a) b)

c) d)   
  
  
  
  
  
  
  
  
9) Order the following numbers without evaluating them. Show your work. [2]

10) Give the symbols that represents the following number sets, and give 2 examples for each set (that don’t belong to any smaller set) [4]  
  
 - Rational Numbers

- Natural Numbers

- Integers

- Real Numbers