

## GRADE 9 MATHEMATICS JUNE EXAM

### Question 1

Choose the correct answer. Write only the letter next to the question number on your answer sheet.

1.1 Which of the following is a prime number?

- a) 25
- b) 42
- c) 27
- d) -23

1.2 Complete:  $2(\sqrt{36}) - (-4)^2 + \sqrt{-343}$

- a) 5
- b) -11
- c) -6
- d) -23

1.3 The next number in the sequence 1; 9; 27; ... is

- a) 56
- b) 49
- c) 64
- d) 36

1.4 Complete:  $5\frac{1}{2}x - 1\frac{1}{4}x =$

- a)  $2\frac{1}{4}x$
- b)  $3\frac{1}{4}x$
- c)  $2\frac{11}{2}x$
- d)  $4\frac{1}{4}x$

1.5 Which of the following exponential laws are INCORRECT?

- a)  $x^a \cdot x^b = x^{a+b}$
- b)  $x^a \div x^b = x^{a-b}$
- c)  $x^a = 0$
- d)  $(x^a)^b = x^a$

[2x2]  
 [10]

### Question 2

2.1 Write down the HCF of 24 and 36.

(2)

2.2 Write down the LCM of 12, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100.

(3)

2.3 Subtract  $2x^2 - 3x^2 - x$  from  $7x^2 - 5x - 4x^3$

(3)  
 [6]

### Question 3

3.1 Calculate:  $(2,0 \times 10^2) \times (3,5 \times 10^3)$

(1)

3.2 If  $x = 2$ , calculate  $\frac{1}{2}x^2 + 3x - 4$

(3)

3.3 Simplify:

3.3.1  $-4(x - 5)(x + 3)$

(2)

3.3.2  $\frac{1}{x} + \frac{1}{x}$

(4)

3.3.3  $\frac{1}{x} - \frac{1}{x}$

(3)

3.3.4  $\frac{1}{x^2 + 4x + 4}$

(4)  
 [12]

### Question 4

Solve the following equations.

4.1  $2^x = \frac{1}{2}$

(2)

4.2  $x^2 - 4 = 0$

(4)

4.3  $(x + 5)(x - 2) = 0$

(2)

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