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Wiggins Secondary School

Mathematics

Grade 09

March Test

Duration 1 hour

Examiner: Miss Bota

Marks: 50

Moderators: Mrs Naiker

Mr Zwane

Instructions and Information:

1. Answer ALL questions.
2. Write neatly and Legibly.
3. This question paper consists of 4 pages and 3 questions.
4. Answer on the question paper.
5. Write your Name, Surname, and Class in the space provided.

NAME AND SURNAME: _____

GRADE 9: ____

QUESTION 1

Given: 9; 3; $\sqrt{7}$; -5 ; $2\frac{1}{4}$ write down a/an:

- | | |
|---------------------------------------|-----|
| 1.1 Prime number_____ | (1) |
| 1.2 Irrational number_____ | (1) |
| 1.3 Uneven perfect square number_____ | (1) |
| 1.4 Integer_____ | (1) |
| 1.5 Rational number_____ | (1) |

1.2 Use a ladder method / tree diagram to:

1.2.1 Write 40 and 260 as the products of their prime factors. (4)

1.2.2 Determine the HCF of 40 and 260. (2)

1.2.3 Determine the LCM of 40 and 260. (2)

1.3 Without using a calculator. Calculate (show ALL the steps):

a) $(5 + 25) \div 3 =$ (2)

b) $4^2 \times \sqrt[3]{27} =$ (3)

c) $(5)(-2) - 18 \div \sqrt{9} =$ (4)



$$\text{d) } -3 - (-2)(5) - (-4)^3 \quad (4)$$

QUESTION 2

$$2.1 \text{ FROM } 11b - 6a + 14 \text{ SUBTRACT } -3a + 12b + 4 \quad (3)$$

$$2.2 \text{ ADD } 3x^2 - 5x + 6 \text{ WITH } x^2 - 5x + 11 \quad (2)$$

2.3 Simplify:

$$\text{a) } x(x - 4) - x(5x + 1) = \quad (3)$$

$$\text{b) } (6x^3 + 8x^2 + 12x) \div 2x = \quad (3)$$

QUESTION 3

3.1 Simplify the ratio 18:24

(2)

3.2 In a bag there are 84 marbles. There are Pink marbles and blue marbles. The ratio of blue marbles to pink marbles is 3:11.

3.2.1 Calculate how many:

a) blue marbles are in the bag.

(2)

b) pink marbles are in the bag.

(2)

3.3 A car is travelling at an average speed of 106km/h for 2 hours 45 minutes. Calculate the distance covered by the car.

(4)

3.4 A farmer ploughs his land in 12 days if he uses 5 tractors. How long will it take if he uses only 3 tractors?

(3)
