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MARTHOMA RESIDENTIAL SCHOOL, TIRUVALLA
THIRD TERMINAL EXAMINATION 2018-2019

MATHEMATICS

LASS VI

TIME: 2 Hrs
MARKS: 80

fill in the blanks

(10)

- (1) All natural numbers are _____ numbers.
- (2) $0 \div 19 =$ _____
- (3) Every positive integer is greater than _____.
- (4) Additive inverse of 8 is _____.
- (5) The HCF of two or more numbers is always a factor of their _____.
- (6) Absolute value of (-19) is _____.
- (7) The numerical coefficient of $-xy$ is _____.
- (8) The sum of two opposite integers is _____.
- (9) Perimeter of a square is four times the _____ of its one side.
- (10) $-12 - (-5) =$ _____.

two mark questions

- (1) Simplify 32×102 using distributive property.
- (2) Find $7 + (-5) + 10 + (-8)$
- (3) If the product of two numbers is 1200 and their LCM is 30, what is their HCF?
- (4) Solve $36 + 8x = 100$.
- (5) Write the terms in the following expression.
 - (a) $-3x + 5 + 7z$
 - (b) $4y + 2$
- (6) Find the perimeter of the rectangle whose length and breadth are 21cm and 31cm respectively.

three mark questions

- (1) Add -21 to the difference of -8 and -18 .
- (2) Simplify $17 \times 438 - 13 \times 438 + 438 \times 6$
- (3) Find the HCF of 42 and 60 using prime factorisation method.
- (4) The sum of three consecutive natural numbers is 183. Find the three numbers.
- (5) Find the mean and median of 12, 20, 8, 14, 10, 16.
- (6) The grades of all the 30 students of a class in an annual examination are as follows:

follows:

A B C A C B B C A C C B A A C A B C C B A C B C A A C
B A C

Make a frequency table for the data.

Four mark questions

- (1) Reduce $\frac{520}{1430}$ to the lowest terms.
- (2) Simplify $(-20) \text{ of } 2 + 32 - (8 \times 9) \div 6$
- (3) Construct a line segment of length 10cm . Mark its midpoint. Construct a line perpendicular to the line segment through it.
- (4) (a) Solve $3n + 5 = 17$
(b) Twice a number decreased by 18 equals 40. Find the number.
- (5) A rectangular metal plate is 14m long and 13m wide. If the metal costs Rs.75 per square metre, find the cost of the metal plate.

Five mark questions

- (1) Construct 90° using compass.
- (2) Find the greatest 5-digit number exactly divisible by 5, 8, 10, 12.
- (3) (a) Write the degree of (i) $x^3y - 4y^2 - 7z^6 + 5$
(ii) $3x - 5yz^2 + xyz$
(b) Write a polynomial involving
(i) three unknowns and of degree 1
(ii) three unknowns and of degree 2
(c) Write an equation of the form $ax + b = c$, where a, b, c are constants and $a \neq 0$, for which $x = 5$ is the solution.
- (4) A survey of 145 people asked them "which is the nicest fruit?"

Fruit	Number of people
Apple	35
Orange	30
Banana	10
Kiwi	25
Blueberry	40
Grapes	5

Prepare a bar graph for the data.