** The Knowledge City School**

**Mid-Term Examination (2019-20)**

**Class: V Paper: Mathematics**

|  |  |
| --- | --- |
| **Name:** | **Total Marks: 50** |
| **Date:** | **Total Marks obtained:** |
| **Paper setter: Ali Raza** | **Time: 2 hours 30 mins** |

1)Write each of the following numbers in words (3)

1. 540 345
2. 1 083 045

2) Write each of the following words in numbers (3)

a. Two hundred and fifty four thousand nine hundred and sixty two .

b. seven million three hundred and forty one thousand five hundred and fifty two .

3) Find the HCF by using prime factorization (4).

i) 36, 126, 202

ii) 48, 72, 144

4) Find the LCM by using prime factorization (4)

i) 16, 24, 44

ii) 49 ,63, 121

5) Solve the following then estimate the (5)

Value of the quotients

1. 7829 – 1942

b. 4125 ÷ 12

6) The earnings of a fast food stall on Monday was Rs 6708, On Tuesday, the earnings was Rs 2354 more than that of Monday. What was the total earnings for both days ? (2.5)

7) Find the value of each of the following in its simplest form

a. 8 × (4)

b. ÷ 30

8) Solve the following and write the answer in its (4)

Simplest form

a. 1 +

b. 4 -

9) A) Convert the following into decimals (4).

a. b.

B) Convert the following into fractions

a. 0.73 b. 1.28

10) There are 95 books on a bookshelf. 40 of the books are fictions and the rest are non-fictions. Find the ratio of the number of fiction books to the number of non-fiction books. Express your answer in its simplest form. (2.5).

11) Find the missing numbers in these equivalent ratios (5).

a. 2 : 3 = \_\_\_ : 18

b. 2 : \_\_ = 6 : 27

c. 4 : 2 : 3 = 12 : \_\_\_ : 9

d. 5 : 6 : 3 = 10 : \_\_\_ : 6

e \_\_:6= 20:18

12)

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**Class: VI Paper: Mathematics**

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| **Name:** | **Total Marks: 50** |
| **Date:** | **Total Marks obtained:** |
| **Paper setter: Ali Raza** | **Time: 2 hours 30 mins** |

***Q1) Find the value of each of the following by using BODMAS (5)***

1. ***{[ (- 15 + 5) × 2 + 8 ] – 32 ÷ 8 } - ( -7 )***

***ii) – 12 - [ - ( -2 ) ]***

***Q2) Given that (5)***

1. ***X=6 and Y=4 evaluate***

***3X + -***

1. ***X=3 and Y= -7 evaluate***

***+ X***

***Q3) Find the sum of each of the following expression (4)***

***a. 3pq – 6hk , -3qp+14kh***

***b. –b - 4a , 7b - 6a***

***Q4) Simplify each of the following expression (5)***

***a. -7x - (-15y) - (-2x) + (-6y)***

***b. x + y + x – y***

***Q5) Express each of the following expression (4)***

1. ***-4 [5 (2x+3y) -4 (x + 2y) ]***
2. ***3 (p-2q) - 4 (-2p -3q -5)***

***Q6) Express each of the following as a fraction in its simplest form (4)***

1. ***–***
2. ***+ +***

***Q7) Solve each of the following expressions (5)***

***a. -3(2y+3) = 4y + 5***

***b. = 4***

***Q8) The formula for finding the value of X is given by A= bh where /4 and h represent the base and height of a triangle respectively***

***a. if b=20cm and h= 45cm find the area of a triangle***

***b. if b=10cm and A= 30 find the height of a triangle***

***Q9) if k = then (4)***

***i) find the value of p when k =7 and q =-9***

***ii) find the value of k when p = -5 and q = -3***

***Q10) Circle thee correct option (5)***

***a. 16 \_\_\_ 64***

***1. > 2. < 3. = 4. None of these***

***b. Find the value of 4 + (-7) – (-3)***

1. ***11 2) -9 3) -12 4) 0***
2. ***-3 × (-9)***

***1) 12 2) -27 3) 27 4) -6***

***d.6 – 7 + 2 × (4 - )***

1. ***-11 2) 13 3) 12 4) 10***

***s***

***e.If x > y then 5x \_\_\_ 5y***

1. ***5x < 5y 2) 5x > 5y 3) 5x = 5y 4) none of these***

***Q11)***

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**Mid-Term Examination (2019-20)**

**Class:Vll paper: mathematics**

|  |  |
| --- | --- |
| Name: | Total marks:50 |
| Date: | Total obtain marks: |
| Paper satter | Time 3 hours |

**Section: A**

Note:circle the correct answers.

1. The difference between -2 and -5 is

a) -3 b)3 c)-7

1. Y=? if y=3x-8 and x=3

a) 1 b) -1 c)17

1. If 3x=-18 then x=?

a) 6 b) -6 c)-21

1. 10% of 18000 is

a) 180000 b) 180 c)1800

1. The next term of sequence is 4,12,36……?

a)180 b) 108 c)18

1. 30% of 200 is

a) 60 b) 21 c)70

1. Time 2:42 am in 24 hour clock is

a) 2:42 b) 14:42 c)12:42

1. Time 19:15 in 12 hour clock is

a) 7:15 b) 9:15 c)8:15

1. 315 m/s is expressed in km/h as

a) 1134 b) 504 c)412

1. If y=3x-8 as x=8 then y=?

a) 16 b) -16 c)36

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**Mid-Term Examination (2019-20)**

**Class:7 paper: mathematics**

|  |  |
| --- | --- |
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| Date: | Total obtain marks: |
| Paper satter | Time 3 hours |

**Section:B (2x10)**

Q.NO.1 attempt all question

1. On a sheet of graph paper; draw the graph of function y=2x-6 for value of x from 0 to 4.
2. Find value of y= if x=-4 to 4.
3. Write down the next two term of the sequence 4,12,36,108……..
4. Given that term, of sequence =5n-3, find sequence of
5. 3rd term
6. 5th term

vii. Express percentage as decimal

a.633%

b.4%

vii. Express fraction as percentage

1. **b.**

ix. There are 20 boys and 18 girls in a class find percentage of (i)girls and (ii)boys in a class.

x. An elastic band which is 72cm long, stretched to 90cm. find the percentage increase in its length.

xi. if 10% is deducted from bill $58.50 remain to be paid. how much is original bill.

xii. given that  **=**  ,find the ratio of x : y.

xiii. Ethan can blow 15 balloons in 20 min , Jun wei can blow 18 balloons in 25 min and vishal can blow 16 balloons in 21 min . assuming that all balloons are blown to same size , who can blow balloons on faster rate.

xiv. convert time into 24 hour clock

1. 8:00 am b. mid night

Z xv. convert time into 12 hour clock

a. 19:15 b. 00:00

xvi. A particle travels 24.6 km in 30 min. find the speed of particle

1. Km/h ii. m/s

**Section : C (5x4=20)**

**Note: attempt all question**

1. The vertices of right angle triangle are A(1,0) ,B(7,0) and c(1,8). Plot the point A ,B and C on sheet of graph paper hence find area of triangle ABC.
2. On a sheet of graph paper draw the graph of y=-2x+3 if range of x is from -4 to 4.
3. Consider the sequence 3,6,9,12,15…..
4. Write down next two terms of sequence
5. Find nth formula
6. Find 105 term
7. complete the table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| FIG NUMBER | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| NUMBER OF TRIANGLE | 4 | 9 |  |  |  |  |  |

1. Find values of
2. 50% 0f 70
3. 80% of 45

6) find values of

a. increase 60 by 35% b. decrease 120 by 45%

7) there are 14 boys and 25 girls in school badminton team.find ratio of

a. numbers of boy to number of girls b.number of girls to total number of player in team

8) A car travels the first 19 km of its journey at an average speed of 57 km/h and remaining 55 km at an average speed of 110 km/h. find the average speed of car for its entire journey.