**  **Sindhi High School-Hebbal**

**I- PERIODIC TEST – [2022-23]**

**Subject: Mathematics**

**Max.Marks:30**

**Class-VIII Reading time: 8:00 to 8:10 am**

**Date: 02.08.2022 Writing time: 8:10 to 9:10 am**

**No. of sides: 2**

**General Instructions:**

The question paper consists of 2 parts A and B.

All questions are compulsory.

Part-A consists of 2 Sections I and II.

Section I has 6 questions of 1 mark each.

Section II has one case study question which has 4 questions in MCQ form.

Part-B consists of 3 sections III, IV and V.

Questions 8-10 are very short answer type questions of 2 marks each (Section –III)

Questions 11 and 12 are short answer type questions of 3 marks each (Section –IV)

Questions 13 and 14 are long answer type of 4 marks each (Section –V)

**PART - A**

**SECTION – 1**

**Section 1 has 6 questions of 1 mark each.** **1 x 6 = 6**

1. Write a rational number equivalent to having denominator 87.

2. Check whether the equation 3x + 5 = 11 is true for x = 2.

3. Fill in the gap and mention the property used.

+ = X

4. Find the rational number by which should be multiplied to get 13.

5. Find the solution for 6p – 4 = 32

6. Frame the equation for: “If 10 is added to 4 times a certain number the result is 5 less than 5 times a number”.

**SECTION – II** **1 x 4 = 4**

7. “A password is a word, phrase or string of characters indented to differentiate on authorised user or process from an unauthorised user. It is used to prove ones identity.”

Children were playing video game and to enter the next level they had to give a two digit password. The hint given to get trace the pass word is:

The sum of this two digit password and the number obtained by reversing the digits of this password is 66. Also the digits differ by 2. Help the children to trace the password by answer the questions that follow:

a) If the unit digit of the password taken as x, then the digit in the tenth place is:

i) 2 – x ii) x + 2 iii) 10 – x iv) x – 10

b) The value of the digit in tenth place is:

i) (x+2)10 ii) (2-x)10 iii) (x-10)10 iv) (10-x)10

c) Original number is:

i) (10 – x)10 + x ii) (x – 10)10 + x

iii) (2-x)10 + x iv) (x + 2)10 + x

d) The two digit number and the reversed numbers are:

i) 15 and 51 ii) 06 and 60 iii) 42 and 24 iv) 33 and 33

**PART -B**

**SECTION - III 2 X 3 = 6**

8. If the sum of 3 consecutive number is 168, find the numbers.

9. The sum of 2 Rational numbers is . If one of them is , then find the other.

10. Find 3 Rational numbers between and .

**SECTION – IV 3 X 2 = 6**

11. Solve and verify: = 1

12. Represent the solution of: { X } + on a number line.

**SECTION – V 2 X 4 = 8**

13. Solve for y: + =

14. (i) State and prove Associative property of Rational numbers under Addition for a = , b = , and c =

(ii) Write the additive and multiplicative inverse of

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