

**SINDHI HIGH SCHOOL, HEBBAL**

**III PERIODIC TEST [2023-24]**

**SUBJECT: MATHEMATICS**

**Class: VII Max Marks: 30**

**Date:.05.02.2024 Reading Time:8:20-8:30am**

**No of Sides:02 Writing Time:8:30-9:30am**

**GENERAL INSTRUCTIONS:**

* This Question Paper has 5 Sections A-E.
* Section A has 6 MCQs carrying 1 mark each
* Section B has3 questions carrying 02 marks each.
* Section C has 3 questions carrying 03 marks each.
* Section D has 1question carrying 05 marks..
* Section E has 1 case based integrated units of assessment carrying 4 marks

sub-parts of the values of 1, 1 and 2 marks each.

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|  | **Section A** |  |
|  | **Section A consists of 6 questions of 1 mark each.** |  |
| 1 | The coefficient of in - 8np is  a) -8n b) 8np c) -8np d) - 8p | **1** |
| 2 | The additive inverse of is  a) b) c) d) | **1** |
| 3 | The product of a rational number and its reciprocal is  a) 0 b) 1 c) 1 d) 2 | **1** |
| 4 | An algebraic expression having 4 as its value, when x= 2  a) 6 – 2x b)x + 2 c) – 2 +6 d) 2x + 5 | **1** |
| 5 | ÷ is equal to  a) b) c) d) | **1** |
| 6 | **Assertion :** 5 - - is a trinomial.  **Reason :** An algebraic expression consisting of two unlike terms is called a binomial.  a)Both assertion and reason are correct and reason is the correct explanation of assertion.  b) Both assertion and reason are correct but reason is not the correct explanation of assertion.  c) Assertion is correct but reason is incorrect.  d) Assertion is incorrect but reason is correct. | **1** |
|  | **Section B** |  |
|  | **Section B consists of 3 questions of 2 marks each.** |  |
| 7 | Find the sum: + ( ) | **2** |
| 8 | Identify the terms and factors of the expression 5p- 8q using a tree diagram. | **2** |
| 9 | Subtract from | **2** |
|  | **Section C** |  |
|  | **Section C consists of 3 questions of 3 marks each.** |  |
| 10 | a) Write the algebraic expression for this statement: ‘ The product  of numbers a and b subtracted from 13’.  b) If n= 10, find the value of -3n-100 | **3** |
| 11 | Calculate: ( + ) | **3** |
| 12 | Identify and write the following as like or unlike terms:  a) -9xyz, 4yz, -9xz  b) 5q, 3p  c) -6a, a | **3** |
|  | **Section D** |  |
|  | **Section D consists of 1 question of 5 mark** |  |
| 13 | a) Classify the following algebraic expressions into monomials, binomials and trinomials:  6-4n, , pq-5, -4+9  b) Simplify and find the value of 2(y+3)-y+8 when y =3 | **5** |
|  | **Section E** |  |
|  | **Section E consists of one Case base study question of 4 mark** |  |
| 14 | Ajay bought new clothes for his son on his birthday. He spends ₹(6x-5) for a shirt and ₹ (4x+8) for a pair of trousers.  a)Write the algebraic expression for the total cost of a shirt and a pair of trousers.  (1mark)  b) If the cost of a shirt is decreased by ₹ 50 and the cost of a pair of trousers decreased by ₹ x, write the algebraic expression for the cost of a shirt and a pair of trousers.(1mark)  c) If x= 50, then find the cost of a shirt and a pair of trousers after decreasing the price.(2marks) | **4** |

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