1. **VERY SHORT ANSWER QUESTIONS:**

Q1. (-2 - ( -2 + when simplified is rational or irrational? (U)

Q2. Simplify . (A)

Q3. is equal to ? (U)

Q4. What is the product of two irrational numbers? (K)

Q5. Find the sum of  and . (A)

Q6. Find the value of *x*3*y*3 if (A)

Q7. Simplify :  (U)

1. **SHORT ANSWER QUESTIONS:**

Q8. Represent on a number line. (S)

Q9. Simplify : . (U)

Q10. If z  0.064, then find the value of. (U)

Q11. Represent on a number line. (S)

Q12. is not a rational number as are not rational . State whether it is true or false . Justify your answer. (U)

Q13. Arrange in ascending order.

Q14. Rationalise the denominator: . (A)

1. **LONG ANSWER QUESTIONS :**

Q15. If a = 2 + and b = 3 + , find + . (A)

Q16. (A)

Q17. Find a point corresponding to 3 + on a number line. (U,S)

Q18. If = 2.236 and = 1.732 , find the value of + . (U,S)

Q19. If x = 9 - 4find . (A)

Q20. If - = a + b , find a and b where a and b are rational numbers. (A)

Q21. If p = , find . (A)

1. **HIGHER ORDER QUESTIONS:**

Q21. If = = , then find the value of .

Q22. If = = , then show that c = .

1. Value Based Questions:-

Q23. Varun was facing some difficulty in simplifying . His classmate Priya gave him a clue to rationalise the denominator for simplification. Varun simplified the expression and thanked Priya for this goodwill. How Varun simplified ? What value does it indicate?

Q24. Two classmates Salma and Anil simplified two different expressions during the revision hour and explained to each other their simplifications. Salma explains simplification of and Anil explains simplifications of. Write both the simplifications. What value does it depict ?

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| KNOWLEDGE (K) | UNDERSTANDING(U) | APPLICATION (A) | HOTS | VALUES/SKILLS |
| 8.3% | 25% | 37.5% | 8.3% | 25% |