

**SINDHI HIGH SCHOOL**

**ANNUAL EXAMINATION (2024-25)**

**SUBJECT – Mathematics**

**Class: VII Marks: 80**

**Date: 12/03/2025 Reading Time: 8:15 to 8:30 am Number of printed sides: Writing Time: 8:30 to 11:00am**

**GENERAL INSTRUCTIONS:**

* This Question paper contains - five sections A,B,C,D and E. Each section is compulsory. However, there is some internal choice in some questions.
* Section A has 18 MCQ’s and 02 Assertion Reason based questions of 1 mark each.
* Section B has 5 Very Short Answer(VSA) questions of 2 marks each.
* Section C has 6 Short Answer(SA) questions of 3 marks each.
* Section D has 4 Long Answer(LA) questions of 5 marks each.
* Section E has 3 case based integrated units of assessment (04 marks each) with sub- parts of the values of 1, 1 and 2 marks each.
* Internal Choice is provided in 2 questions in Section-B, 2 questions in Section-C, 2 Questions in Section-D. You have to attempt only one alternatives in all such questions.

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|  | **SECTION – A** |  |
|  | **Section A consists of 20 questions of 1 mark each.** |  |
| 1 | The positive rational number is  a) b) c) 0 d) | 1 |
| 2 | Each acute angle of a right angled isosceles triangle is    (a) 60˚ (b) 45˚ c) 40˚ d) 55˚ | 1 |
| 3 | Fraction form of 40% in its simplest form  a) b) c) d)  D | 1 |
| 4 | In triangle DEF, H is the midpoint of EF, then DH is  a) altitude b) parallel line  c) perpendicular line d) median  F  E    H  G | 1 |
| 5 | The greatest negative integer is  a) 0 b) -1 c) -1000 d) -9999 | 1 |
| 6 | A fan is purchased for ₹700 and sold it for ₹650. The loss percent is  a) % b) % c) % d) | 1 |
| 7 | What is the value of x if =  a) -42 b) 77 ]c) 42 d)-35 | 1 |
| 8 | The area of a parallelogram is twice the area of triangles formed by one of its  a) sides b) diagonals c) vertices d) angles  **mn** | 1 |
| 9 | The next two numbers in the pattern -13, -9 , -5, \_\_\_\_\_, \_\_\_\_\_  a) -3, -1 b) -7, +3 c) -1, 0 d) -1, 3 | 1 |
| 10 | Which rational number is in the standard form?  a) b) c) d) | 1 |
| 11 | A circle has    a) no line of symmetry b) one line of symmetry  c) two lines of symmetry d) unlimited lines of symmetry | 1 |
| 12 | 50% of 1 kg is  a) 5kg b) 500g c) 50g d) 5g | 1 |
| 13 | + = \_\_\_\_  a) b) c) d) | 1 |
| 14 | The angle of rotation of an equilateral triangle is  a) 360˚ b) 270˚ c) 180˚ d) 120˚ | 1 |
| 15 | The product of two integers is (-80). If one of them is (-8), then the other integer  a) -10 b) -8 c) 10 d) 8 | 1 |
| 16 | A triangle having angles 110˚, 40˚, and 30˚ is called \_\_\_\_\_ angled triangle.  a) acute b) right c) obtuse d) equilateral | 1 |
| 17 | How many times a wheel of diameter 14cm must rotate to go 220cm?  a) 5 times b) 7 times c) 6 times d) 11 times | 1 |
| 18 | Reciprocal of -8 is  a) 8 b) 9 c) d) | 1 |
|  | **Asertion – Reason questions**  In the following questions, A statement of Assertion (A) is followed by a statement of reason ( R )  a)Both Assertion(A) and Reason (R) are true and  Reason( R)  is the correct explanation of (A)  b)Both Assertion(A) and Reason (R) are true and  Reason( R)  is not the correct explanation of (A)  c)Assertion(A)  is true and  Reason( R)  is false  d)Assertion(A)  is  false and  Reason( R)  is true |  |
| 19 | **Assertion:** -4 and -4p are like terms.  **Reason:** The terms either not having same variables or those with same variables but unequal powers are called unlike terms. | 1 |
| 20 | **Assertion:** The two sides of a triangle measure 6cm and 8cm. The measure of the third side can be 7.5 cm  **Reason:** The sum of the lengths of any two sides of a triangle is greater than the length of third side. | 1 |
|  | **SECTION – B** |  |
| 21 | Complete: (i) -658 **÷** = -658 (ii) -70 + = 40 + (-70)  (iii) **÷ 6 = -5** (iv) (-12) – (-12) = | 2 |
| 22 | Find the area of a right angled triangle whose two legs are 12cm and 5cm respectively and hypotenuse is 13cm.  **OR**  The perimeter of a triangle XYZ is 19cm. If two sides are 8cm and 5cm and the height YM = 3.5cm, find the area of triangle XYZ.  X  8 cm  M  5 cm  Z  Y | 2 |
| 23 | The points A, B, C, D, E, F, G and H on the number line are such that AB=BC=CD and EF=FG=GH. Name the rational numbers represented by G, F, B and C.  **OR**  Draw the number line and represent the rational numbers , , , on it. | 2 |
| 24 | After rotating by 72˚ about a centre, a figure looks exactly the same as its original  position. At what other angles will this happen for the figure? | 2 |
| 25 | List any two rational numbers between -3 and -4 | 2 |
|  | SECTION-C |  |
| 26 | Solve: a) × × b) **÷**  **OR**    **a)**  × b) **÷** | 3 |
| 27 | 1. Classify the following as monomials, binomials and trinomials   (i) 6x – 13y ii) - 8m -5 iii) - p + 5p iv) 12ab   1. Write the co efficient of terms which contains in the expression     3x - 9 + 12y | 3 |
| 28 | ABCD is a parallelogram. AE is the height from A to DC and AF is the height  from A to BC. If DC= 14cm and AE= 6.5cm, find the area of the parallelogram  ABCD AF, if BC= 10cm.    **OR**  Find the perimeter of the given shape. | 3 |
| 29 | Verify that a×(b+c) = (a×b) + (a×c) for the values of a=12, b= - 4 , c=2 | 3 |
| 30 | Identify which of the following figures have both line symmetry and rotational  symmetry of order more than one. Also draw lines of symmetry. | 3 |
| 31 | A ladder 15m long is leaning against a wall. The foot of the ladder is 9m away  from the wall. Find the height upto which the ladder reaches the wall. | 3 |
|  | SECTION-D |  |
| 32 | a) Show the terms and factors of the expression -2x by tree diagram  b) Simplify the expression 3a +2b +5a –b and find the value of simplified expression if a=2, b=1.  **OR**  a) Write the algebraic expressions for the following statements:  i)one-sixth of the product of numbers m and n  ii)sum of numbers ‘x’ and ‘y’ subtracted from their product.  b) Simplify the expression -5 + 3 – p + 9 and find the value of simplified  expression if p = 3 | 5 |
| 33 | Find the value of the unknown x and y in the following diagrams. | 5 |
| 34 | (a) Find the perimeter of the given figure  (b) Also, find its area. | 5 |
| 35 | a) Express the following numbers as percents:  i) ii) 11.24 iii) each part of the ratio 3:2  b) What is 30% of 900?    **OR**  a) Out of 40 students, 8 are absent. What percent of the students are present?  b) 65% of what number is 13? | 5 |
|  | SECTION E |  |
| 36 | A fruit seller has kg oranges and he sells kg to a customer. His friend helps him to calculate the remaining oranges.  a) How much weight of oranges is left after selling?  b) If another customer buys kg of oranges from the remaining, how much is  left now?  c) If the seller receives ₹10 per kg, how much will he earn from kg orange ? | 4 |
| 37 | Diya deposits ₹6000 in a bank for 3 years at an interest rate of 7% per annum  a) What is the formula for calculating simple interest?  b) How much simple interest will she earn in 3 years?  c) What will be the total amount after 3 years? | 4 |
| 38 | Bhuvan bought ‘3n’ chocolates and ‘6p’ pens to give his friends on his birthday.  The cost of each chocolate is ₹5 and each pen is ₹ 10.  a) Write the algebraic expression for the total number of chocolates and pens he  bought.  b) Find the cost of chocolates and pens.  c) If n= 4 and p=5, find the total cost of chocolates and pens. | 4 |