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**SINDHI HIGH SCHOOL, BENGALURU**

**HALF YEARLY EXAMINATION [2023-24]**

**SUBJECT: MATHEMATICS**

**Class: VI Max Marks: 80**

**Date: 03/10/2023 Reading Time: 8.30-8.45a.m**

**No of Sides: 05 Writing Time: 8.45-11.45a.m**

**GENERAL INSTRUCTIONS:**

* This Question Paper has 5 Sections A, B, C, D and E.
* Section A has 20 MCQs carrying 1 mark each
* Section B has 5 questions carrying 02 marks each
* Section C has 6 questions carrying 03 marks each.
* Section D has 4 questions carrying 05 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 respectively.

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|  | **Section A** |  |
|  | **Section A consists of 6 questions of 1 mark each.** |  |
| 1 | Which is the largest 4- digit number having different digits?  (a) 9999 (b) 9987 (c) 9867 (d) 9876 | **1** |
| 2 | The H.C.F of 22, 44 and 88 is \_\_\_\_\_  (a) 22 (b) 44 (c) 11 (d) 88 | **1** |
| 3 | 1 crore = \_\_\_\_\_\_\_\_ million  (a) 1 (b) 10 (c) 100 (d) 1000 | **1** |
| 4 | The place value of 6 in the greatest number formed by using the digits 3, 8, 6, 4, 5 and 0 without repeating the digits is  (a) 600 (b) 6,000 (c) 60,000 (d)6,00,000 | **1** |
| 5 | The smallest whole number is  (a) 3 (b) 2 (c) 1 (d) 0 | **1** |
| 6 | In which of the following expressions, prime factorisation has been done?  (a) 36= 2×3×6 (b) 54= 2×3×9  (c) 105=3×5×7 (d) 88=2×11×4 | **1** |
| 7 | Fraction representing the unshaded portion in the figure  is  (a) (b) (c) (d) | **1** |
| 8 | The total weight of all the candies in the box containing 2,00,000 candies each weighing 20mg is  (a) 4000 g (b) 400000 g (c)4000 mg (d)400000mg | **1** |
| 9 | The least prime number is \_\_\_\_\_  (a) 1 (b) 2 (c) 3 (d)4 | **1** |
| 10 | Which of the following statements is true?  (a) A ray has no end points.  (b) A line has two end points.  (c) A line segment has no end points.  (d) A point has no dimensions | **1** |
| 11 | The additive inverse of 1 is  (a) 0 (b) 1 (c) ̶ 1 (d) 2 | **1** |
| 12 | What fraction of an hour is 45 minutes?  (a) (b) (c) (d) | **1** |
| 13 | The number of lines that can pass through two given points is  (a) 1 (b) 2 (c) 3 (d) infinite | **1** |
| 14 | Which of the following pairs are twin primes?  (a) (23, 25) (b)(39, 41) (c) (61,63) (d)(17, 19) | **1** |
| 15 | The fraction representing prime numbers between 1 and 20 is \_\_\_\_  (a) (b) (c) (d) | **1** |
| 16 | The predecessor of 1 lakh is \_\_\_\_\_\_\_\_  (a) 99000 (b) 99999 (c) 999999 (d)100001 | **1** |
| 17 | The the product of the smallest 2-digit number and the smallest whole number is  (a) 10 (b) 1 (c) 0 (d) 100 | **1** |
| 18 | The fraction which is not equivalent to is \_\_\_\_\_  (a) (b) (c) (d) | **1** |
| 19 | **Assertion: There does not exist the largest natural number.**  **Reason: Every natural number has its successor.**  (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** |
| 20 | **Assertion: (-14) is lesser than (-13)**  **Reason: (-13) is to the left of (-14)**  (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 5 questions of 2 marks each** |  |
| 21 | How many whole numbers are there between 66 and 95? | **2** |
| 22 | Find 85 using number line. | **2** |
| 23 | Fill in the missing fraction  (a) - = (b) + = | **2** |
| 24 | Test the divisibility of the numbers  (a) by 3: 2358 (b) by 10: 10825 | **2** |
| 25 | A can has 3 litres and 750 ml of juice. In how many glasses, each of 150 ml capacity can it be filled? | **2** |
|  | **SECTION-C** |  |
|  | **Section C consists of 6 questions of 3 marks each** |  |
| 26 | (a) Write the next two whole numbers after 30999.  (b) Write the successor of 41029. | **3** |
| 27 | (a) Compare using <, > or = signs.  (i) (ii)  (b) Arrange , , and in descending order.  (c) Add: + + | **3** |
| 28 | Name all the sides and any two angles in the given diagram: | **3** |
| 29 | Chethan had kg of rice in his shop. He sold kg of it. How much rice was he left with? | **3** |
| 30 | (a) Find the sum of 514, 46 and 163  (b) Subtract (-3) from 10 | **3** |
| 31 | Write the following as numerals and then insert commas  (a) Six hundred eight million two hundred forty six thousand four hundred nine.  (b) 4,00,000 + 8,00,000 + 60,000 + 10 = \_\_\_\_\_\_\_ | **3** |
|  | **SECTION-D** |  |
|  | **Section D consists of 4 questions of 5 marks each** |  |
| 32 | (a) Fill in the missing numbers  Prime factorisation of 42= ×3×  Prime factorisation of 70= ×5×  So, H.C.F of 42 and 70 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_  (b) 54  6    3 3  Therefore, prime factorisation of 54= \_\_\_\_\_\_\_\_ | **5** |
| 33 | Jairaj, Arjun and Ravi start walking from the same spot. Their steps measure 72cm, 81 cm and 90cm respectively. What is the minimum distance each should cover so that all can cover the distance in complete steps? | **5** |
| 34 | (a) Write all the integers between (-28) and (-23) in increasing  order.  (b) Add using the number line: (-3) + (-4) + 5 | **5** |
| 35 | (a) In the given diagram, name the point(s)  i) In the interior of ∠ XOY ii)In the exterior of ∠YOZ iii)on ∠YOZ      (b)From the given figure, identify  i) Any two rays ii) A pair of parallel lines | **5** |
|  | **SECTION-E** |  |
|  | **Section E consists of 3 case study based questions.** |  |
| 36 | A music concert was held for four days in a city. The number of tickets sold at the counter on the first, second, third and fourth day was 145084; 71282; 89450 and 235624 respectively.  (a) On which day highest number of tickets sold and how many?  (b) Arrange the numbers of tickets sold on all the four days in  ascending order.  (c) Find the total number of tickets sold on all the four days  together. | **4** |
| 37 | Aditya bought m of red ribbon and Rekha bought m of blue ribbon for the class activity.  (a) Convert m into a mixed fraction.  (b) How much more blue ribbon than red ribbon did Rekha buy?  (c) If Rekha gives m of ribbon to her friend, find the length of  remaining ribbon. | **4** |
| 38 | Lakshmi is trying to answer few questions of the worksheet of chapter ‘Integers’. Help her to answer these questions.  (a) Write the opposite of ‘ Gain of ₹500’.  (b) If we are at (-2) on the number line representing integers,  in which direction and how many steps should we move to  reach (-6)?  (c) Write any two negative integers greater than (-16). | **4** |

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