

INDIAN SCHOOL SOHAR TERM I EXAMINATION (2023-24) MATHEMATICS

CLASS: VI DATE: 26/09/2023 MAX. MARKS: 80 TIME: 3 HOURS

General Instructions:

- 1. This Question paper contains- five sections **A**, **B**, **C**, **D** and **E**. Each section is compulsory. However, there are internal choices in some questions.
- 2. Section A has 18 multiple choice questions (MCQs) and 2 Assertion Reason based questions of 1 mark each.
- 3. Section B has 5 Very Short Answer (VSA) type questions of 2 marks each.
- 4. Section C has 6 Short Answer (SA) type questions of 3 marks each.
- 5. Section D has 4 Long Answer (LA) type questions of 5 marks each.
- 6. Section E has 3 case based integrated unit of assessment of 4 marks each with sub-parts.

SECTION - A

<u>Multiple Choice Questions</u> and 2 Assertion - Reason based questions (Each question carries 1 mark)

| Q No. | Question | | | | |
|-------|---|------------------------------------|----------------------------|---|--|
| 1. | How many lakhs make 1 million? | | | | |
| | (a) 10 (b) | 1 (c) 100 | (d) 1000 | | |
| 2. | An angle whose measure is less than that of a right angle is: | | | 1 | |
| | (a) Straight angle (b) Right angle | | | | |
| | (c) Acute angle | (d) Obtuse angle | | | |
| 3. | What is the smallest prime | Vhat is the smallest prime number? | | | |
| | (a) 0 (b) | 1 (c) 2 | (d) 3 | | |
| 4. | What is the difference bet | ween the place value and | face value of 8 in 658742? | 1 | |
| | (a) 7992 (b) | 42 (c) 735 | (d) 693 | | |
| 5. | How many end points doe | es a line segment have? | | 1 | |
| | (a) 0 (b) | 1 (c) 2 | (d) 3 | | |
| 6. | What is the additive inverse of (-85)? | | | | |
| | (a) 85 (b) (-86) (c) 87 (d) (-87) | | | | |
| 7. | Which of the following numbers are co-prime? | | | | |
| | (a) 8,10 (b) | 9,10 (c) 6,8 | (d) 15,18 | | |
| 8. | What is the predecessor of the smallest 4-digit number? | | | | |
| | (a) 910 (b) | 999 (c) 998 | (d) 980 | | |
| 9. | What is the smallest whole number? | | | | |
| | (a) 0 (b) | 1 (c) 2 | (d) 3 | | |
| 10. | What is the successor of (| -7)? | | 1 | |
| | (a) (-8) (b) | 0 8 (c) 6 | (d) (–6) | | |
| 11. | How many lines can pass through two given points? | | | | |
| | (a) 0 (b) | (c) 2 | (d) 3 | | |
| 12. | What is the measure of a straight angle? | | | | |
| 12 | (a) 180° (b) | 90° (c) 120° | , (d) 360° | | |
| 13. | What is the name of the a | ngle for one fourth of a re | evolution? | 1 | |
| | (a) Kight angle (b) Obtuse angle | | | | |
| | (c) Acute angle | (d) complete angle | | | |

| 14. | The HCF of two consecutive even numbers is: | | | | 1 |
|----------|--|--------------------------|-----------------------------------|---|-------|
| | (a) 0 | (b) 1 | (c) 2 | (d) 3 | |
| 15. | What is the smallest p | ositive integer? | | | 1 |
| | (a) 1 | (b) 0 | (c) (-1) | (d) 10 | |
| 16. | Name the instrument from your geometry box. | | | | |
| | (a) Divider (b) Compasses | | | | |
| | (c) Protractor (d) Ruler | | | | |
| | | | | | |
| 17. | If line segment AB is perpendicular to line segment CD and they intersect each | | | | |
| | other at O. What is the | e measure of $\angle BC$ |)C? | | |
| | (a) 180 ⁰ | (b) 90 ⁰ | (c) 120 ⁰ | (d) 360 ⁰ | |
| 18. | Name the polygon: | | | \wedge | 1 |
| | (a) Triangle | (b) Penta | gon | $\langle \rangle$ | |
| | (c) Square | (d) Hexa | gon | | |
| | | Assautian Da | | | |
| | | Assertion - Re | ason Based Ques | <u>tions</u> Liby a statement of Decem | (D) |
| Choose | the correct answer out | of the following | choicos | by a statement of Reasor | I(K). |
| (a) Both | Assertion (A) and Read | on (R) are true a | nd Reason(R) is t | ne correct explanation of | |
| | rtion(A). | | | | |
| (b) Both | Assertion(A) and Reas | on(R) are true an | d Reason(R) is no | t the correct explanation | of |
| Asse | ertion(A). | | | · ···· · ··· | |
| (c) Asse | rtion (A)is true but the | Reason(R) is false | 2. | | |
| (d) Asse | ertion(A) is false but Rea | ason (R) is true. | | | |
| 19. | Assertion (A): 24 is a | composite numbe | er. | | 1 |
| | | | | | |
| | Reason (R): Numbers having more than two factors are called composite | | | | |
| 20 | | | | | |
| 20. | Assertion (A): 600 is the successor of 599. | | | | |
| | Reason (R): A predecessor is a number that comes before the given number. | | | | |
| | | | | | |
| | This section comprises | of very short and | <u>mon b</u> swer type questic | ons (VSA) of 2 marks each | l |
| 21. | (i) How many right an | gles do vou make | if you start facing | g south and turn | 2 |
| | clockwise to north? | | | | |
| | (ii) What part of a revolution turned through by the hour hand of a clock when | | | | |
| | it goes from 12 o'd | lock to 3 o'clock? | | | |
| 22. | Write all the integers I | petween 0 and (– | 5) in the increasin | g order. | 2 |
| | | | OR | | |
| | Write the following integers in their decreasing order. | | | | |
| | (-3), 0, (-6), 5, (-4), | 6, 3, (- 8) | | | |
| | | | | | |
| 23. | Write the greatest and | the smallest 5-d | igit numbers by u | sing the digits 8, 3, 9, 2 | 2 |
| | and 0 without any rep | etition. | | | |
| | | | OR | | |
| | One vegetable basket | has 22 tomatoes. | How many total | tomatoes are there if | |
| | there are 4 such baskets? | | | | |
| | | | | | |

| 24. | How many line segments are there in the given figure? | 2 |
|-----|--|---|
| | Name them. | |
| | F B | |
| | | |
| | E | |
| | | |
| 25. | Find the missing values of A, B, C and D in the | 2 |
| | factor tree of 140. 140 | |
| | \wedge | |
| | | |
| | (A) 70 | |
| | | |
| | | |
| | | |
| | | |
| | © D | |
| | | |
| | <u>SECTION C</u> | |
| 26 | I have each of the following triangles based on its sides and angles: | 2 |
| 20. | Name each of the following thangles based on its sides and angles. | 5 |
| | Λ Λ Λ | |
| | 8 cm 5 cm 17 cm 15 cm | |
| | 7 cm | |
| | | |
| | 5 cm 8 cm 7 cm | |
| | (i) (ii) (iii) | |
| 27. | Find the LCM of 24, 36 and 40. | 3 |
| | OR | |
| | Find the prime factorisation of 144. | |
| 28. | Find the product of the successor and the predecessor of the greatest 4-digit | 3 |
| 29 | A machine on average manufactures 3,825 screws a day. How many screws did | 2 |
| 25. | it produce in the month of January 2023? | 5 |
| | OR | |
| | Find the difference between the greatest 6-digit number and the smallest 5-digit | |
| | number. | |
| 30. | Find the sum (– 3) + 5 using number line. | 3 |
| | | |
| 21 | Find the sum: $(-8) + (+5) + (-3) + (-2)$. | 2 |
| 51. | (i) The points in the interior of the $\angle OOP$ Q \checkmark | Э |
| | (ii) The points in the exterior of the $\angle QOP$. | |
| | (iii) The rays of the $\angle QOP$. | |
| | | |
| | О М . М | |
| | | |

| | SECTION D | |
|-----|---|---|
| | [This section comprises of long answer type questions (LA) of 5 marks each] | |
| 32. | Adjacent figure is a vertical number line, representing integers. | 5 |
| | Observe it and answer the following questions: | |
| | (i) If point D is + 8, then which point is (-8) ? | |
| | (ii) Is point B a negative integer or a positive integer? | |
| | (iii) Write integers for points A and F. | |
| | (iv) Which point marked on this number line has the least value? | |
| | (v) Find the value of A + H. | |
| | | |
| 33. | (i) Find the least number which when divided by 12, 16, 24 and 36 leaves a remainder 7 in each case. | 5 |
| | (ii) Using divisibility test, determine whether 169308 is divisible by 3. | |
| | (i) Find the common factors of 15 and 25 | |
| | (ii) Find first three common multiples of 4 and 6. | |
| 34. | (i) Place commas correctly and write the numeral in international system of numeration: "Seven million three hundred three thousand two hundred six." (ii) A shoe factory manufactured 66250 shoes in 250 days. How many shoes did it manufacture per day? | 5 |
| | (i) Sunny is a famous cricket player. He has so far scored 7,280 runs in test matches. He wishes to complete 10,000 runs. How many more runs does he need? | |
| | (ii) Place commas correctly and write the numeral in Indian system of numeration: "Nine crore five lakh forty-one." | |
| 35. | Write the following from the given quadrilateral ABCD: (i) Name the diagonals of the quadrilateral. (ii) Points in the exterior of the quadrilateral. (iii) Sides of the quadrilateral. (iv) Angles of the quadrilateral. (iv) Angles of the quadrilateral. (iv) Angles of the quadrilateral. | 5 |
| | (v) Vertices of the quadrilateral. | |

| r | | | | | SECT | ION E | |
|---------------|---|-----------------------|---------|--------------------|-----------|--|-------------|
| [This s na | ection compri arts The first | ises of 3 two case | case b | ased in quest | ntegrat | ed unit of assessment of 4 marks each wit ave three sub parts (i) (ii) (iii) of marks 1 1 | h sub- 2 |
| respe | respectively. The third part (iii) has internal choice. The third case study question has two sub | | | | | | |
| | Γ | | р | arts (i) |), (ii) o | f 2 marks each] | |
| 36. | | 1 | 2 | 3 | 4 | | |
| | | 5 | 6 | 7 | 8 | | |
| | | 0 | 10 | / | 10 | | |
| | | 9 | 10 | 11 | IZ | | |
| | | 13 | 14 | 15 | 16 | | |
| | | 17 | 18 | 19 | 20 | | |
| | One day, du | ring gam | es peri | iod fou | r frien | ds Sohan, Mohan, Amit and Rahul | |
| | planned to p | olay game | e using | numb | er caro | ls. They prepared 20 numbered cards | |
| | with labelled | 1 to 20 | and th | en the | y put a | Il the number cards in the empty chalk | |
| | box available | e in the c | lassro | om. In ch droi | this ga | me every friend was asked to pick the | |
| | card randomly and after each draw, card was replaced back in the chalk box. | | | | | 1 | |
| | (ii) Which is | the grea | test pi | rime nu | umber | between 1 to 20? | 1 |
| | (iii) Find the | HCF of 1 | 8 and | 20. | | | 2 |
| | (| | | c – c | C | DR | |
| 27 | (iii) Write al | I the mul | tiples | of 5 fro | om the | numbers given from 1 to 20. | |
| 57. | people are in | nterester | l in bu | ving cv | cles fo | r regular cycling in the morning or in the | |
| | evening. In c | one state | , the n | umber | of bic | ycles sold in last three years are given in | |
| | a tablular fo | rm. | | | | | |
| | Year Number of bicycles sold | | | | | | |
| | 2020 | | 7,43, | ,000 | | | |
| | 2021 | | 8,00, | ,100 | | | |
| | 2022 | | 5,75, | ,860 | | | |
| | | | | | | | 1 |
| | (i) In which | year wer | e more | e bicyc bicyclo | les solo | | 1 |
| | (iii) Find the | differen | ce bet | ween t | the bic | vcles sold in the year 2021 and 2020. | 2 |
| | (, | | | | | OR | _ |
| | (iii) Find the | total nu | mber o | of bicy | cles so | d in all the three years. | |
| 38. | | | | | BAN | ĸ | |
| | | | | | llss | Π | |
| | | | | | | | |
| | A deposit is | money | out int | o a ba | nk acc | ount for safekeeping until you need it. A | |
| | withdrawal is money that is taken out of your account. Mohan deposits ₹ 2000 in | | | | | | |
| | his bank acc | ount and | withd | raws ₹ | 1642 · | from it the next day. | |
| | (i) write the amount deposited and withdrawn as integers with appropriate | | | | 2 | | |
| | (ii) Find the | balance | amour | nt in M | ohan's | account after the withdrawal. | 2 |
| 1 | THE END | | | | | | |