

PRE SECONDARY SCHOLARSHIP EXAMINATION (Std. 8th), FEBRUARY 2023

Seat No.

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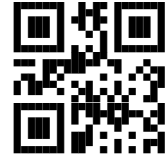
Paper No. I

Time : 11:00 to 12:30

Medium : English

Total Marks : 150

First Language and Mathematics



Pages : 16

Read the following instructions carefully before you answer the questions.

- (1) This question paper contains **two** sections. In Section **I** there are **1** to **25** questions of First Language and in Section **II** there are **26** to **75** questions of Mathematics. All **75** questions are compulsory.
- (2) All questions carry **2** marks each.
- (3) Time limit to solve the question paper is **90** minutes.
- (4) Separate answer sheet is given to record the answers. Each question has been given four alternatives. Read them carefully. Select and darken the correct answer in the answer sheet.
For Example :- If the correct alternative for Q. No. **6** is **2**, then record your answer as follows :
Question No. **6** - ① ● ③ ④
- (5) Maximum 20% questions are having two correct alternatives. Candidate has to darken both the circles with correct answers. These questions will have the instruction '**Select two correct alternatives**'.
For Example :- If the correct alternative for Q. No. **8** is **2 & 3**, then record your answer as follows :
Question No. **8** - ① ● ● ④
- (6) Answer recorded in any other form will not be considered. Such answer will be credited with 'Zero' mark. ⚡ ② ● ④
- (7) Use blue or black ball pen to darken the circle. Circles darkened by pencil will not be credited.
- (8) Answer once recorded can not be changed.
- (9) The rough work is to be done in the space given under each page or on the last page of the question paper.
- (10) The exam has limited time, in case you are not able to solve a question, kindly solve the next question. In the end if time permits you can try to solve the unsolved questions.
- (11) If incomplete or wrong question found in a question paper, you are not permitted to ask the same to Supervisor or Centre Incharge.
- (12) School or parents should not send written application to Block Education Officer or Education Officer for any error, mistake or objection issues. These error / mistake / objection issues should be registered online through respective school login only.
- (13) The error / mistake / objection issues should be registered online within 10 - days from the publication of Interim answer key on MSCE website.
- (14) Suggestion and decision of expert committee will be applicable on printing or any other mistake in question paper.

SECTION - I

ENGLISH

01. 'Til' is sesame. 'Kashta' is a stick, so 'Tilkashta' refers to the sticks or stem of sesame plants that you see in my hands. How many Non English words are used in the following sentence?
- (1) 3 (2) 2
(3) 4 (4) 1

Passage for Question No. 02 and 03.

Gond art is a tribal art. It has been developed and preserved by the Gond tribal people residing largely in the Madhya Pradesh, Maharashtra, Telangana, Andhra Pradesh and Odisha States of India. From their traditional tales and mythology, we learn that they have lived in India for thousands of years even before the other inhabitants came here. The Gondi language is similar to Telugu, a Dravidian language.

Gond art has spread mainly in Central India. Originally, people used to draw pictures on the earthen walls of their houses. Most folk arts involve natural techniques of preparing colours and use of several mediums. They are transferred from generation to generation in a smoothly flowing process. Gond art is no exception to this. A house decorated with beautiful pictures creates a pleasant atmosphere. Also, art is a medium of recording and preserving what is seen.

02. Gond art has been developed and preserved by the Gond _____ people.
- (1) local (2) habitant
(3) city (4) tribal
03. Gond art creates _____ when house is decorated with beautiful pictures.
- (1) a pleasant atmosphere (2) an unpleasant atmosphere
(3) large atmosphere (4) smooth atmosphere

SPACE FOR ROUGH WORK

A poem for Question No. 04 and 05.

To a butterfly

STAY near me - do not take thy flight!
A little longer stay in sight!
Much converse do I find in thee,
Historian of my infancy!
Float near me; do not yet depart!
Dead times revive in thee:
Thou bring'st, gay creature as thou art!
A solemn image to my heart,
My father's family!
Oh! pleasant, pleasant were the days,
The time, when, in our childish plays,
My sister Emmeline and I
Together chased the butterfly!
A very hunter did I rush
Upon the prey-with leaps and springs
I followed on from brake to bush;
But she, God love her, feared to brush
The dust from off its wings.

– *William Wordsworth*

- 04.** Who together chased a butterfly?
(1) My sister Emmeline (2) The poet
(3) My sister Emmeline and I (4) I
- 05.** 'Dead time revive in thee' what days does the poet want to mention?
(1) Dead days (2) Childhood days
(3) Elderly days (4) Father's days
- 06.** Find out two correct alternatives for the following sentence.
_____ I borrow your umbrella?
(1) Ought (2) Can
(3) May (4) Do

SPACE FOR ROUGH WORK

News for Question No. 07 and 08.

War against pollution

Air pollution kills 30k in capital city of India every year. New Delhi shocking CSE study says air quality in capital was bad through out November. CSE puts focus on revamping city's transport system and reducing use of solid fuels. Air pollution is responsible for 10,000 - 30,000 deaths in Delhi annually and is the fifth largest cause of death in country, states the body Burden 2015' report released by the Centre for Science and Environment (CSE) on Tuesday.

Outdoor air pollution kills 6,00,000 people and indoor air pollution kills 1.5 million people in India annually.

07. To reduce pollution, CSE suggested _____.
(1) stopping indoor air pollution.
(2) revamping city's transport system and reducing use of solid fuels.
(3) Stopping outdoor pollution.
(4) Walking is the best way.
08. Which city is mentioned in the news regarding pollution?
(1) Mumbai (2) Pune
(3) Hyderabad (4) New Delhi

Letter for Question No. 09 and 10.

18, Patel Road,
New Delhi - 400014,
16th January 2023.

I have just remembered that it is your birthday on Saturday and so I must send you a birthday letter at once. And I begin with old greetings. Many happy returns of the day. I hope the day itself will be peaceful and happy for you that you will be spared in happiness and health to us all for years yet.

I am sending you a book which I think you will like. You were always a great reader and I am glad that your eyesight remains as good as ever.

Sneh.

09. Sneh gives a book as a birthday present. Give reason.
(1) The day will be peaceful and happy.
(2) He must send birthday present.
(3) He is always great reader and has good eyesight.
(4) He just remembered that his birthday was on Saturday.

SPACE FOR ROUGH WORK

10. Choose two correct alternatives.
- (1) The heading consist of date.
 - (2) The courteous greeting or salutation.
 - (3) The body of letter.
 - (4) The subscription or courteous leave taking.

Advertisement for Question No. 11 and 12.

Sports day

15th January 2023
Sanas Ground,
Pune.

Events for the day-
Foot ball games
Basket ball, Volley ball games
Athletics, Cricket, Tennis

Active games

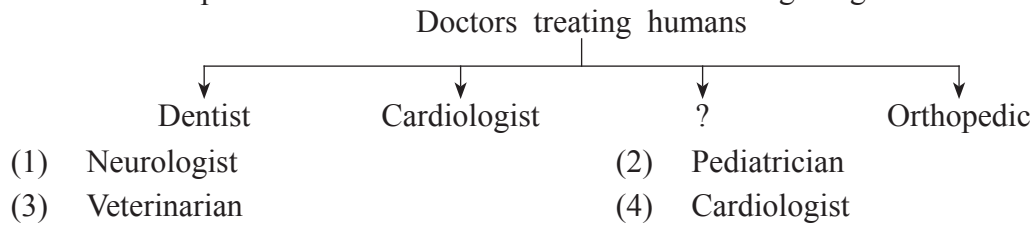
Age group - Girls and Boys under 10 and 15 years.
Time :- 9 A.M. to 6. P.M. / Free Entry
www.website.com

11. Many games are mentioned in the advertisement. These games are described as ____.
- (1) inactive games
 - (2) still games
 - (3) active games
 - (4) inside games
12. Sports day was held on ____.
- (1) 15th January 2023
 - (2) 15th January 2022
 - (3) 15th February 2023
 - (4) 16th February 2022
13. Choose one correct alternative of underlined word.
The fragrance mingles in the air when Nisha spread the scent in the room.
- (1) Smell
 - (2) Bad smell
 - (3) Saint
 - (4) Pleasant Smell

SPACE FOR ROUGH WORK

14. Find out the correct option which has correct suffix for the word - eliminate.
- (1) - ion (2) - ly
 (3) - sion (4) - ive

15. Choose one option which is not related to the following diagram.



16. Find out the correct alternative for the following sentence.

Have you read 'Gulliver's Travels'?

- (1) Past perfect tense (2) Present perfect tense
 (3) Future perfect tense (4) Past continuous tense

17. He is the man whom we all respect.

- (1) Adverb clause (2) Adjective clause
 (3) Noun clause (4) Adverbial clause

18. Read the following sentence and find out type of sentence.

They rested when evening came.

- (1) Simple statement (2) Complex statement
 (3) Compound statement (4) Co-ordinator

19. His angry mother jeered, "Do you suppose you know better than your own mother?"

- (1) His angry mother jeered that he supposed him know better than your own father.
 (2) His angry mother told if you suppose you know better than your own father.
 (3) His angry mother asked if he suppose he know better than his own father.
 (4) His angry mother jeered and asked whether he supposed that he knew better than his own father.

20. Find out two correct alternatives from the following options for the underlined word.

The message made proclamation that everyone should be in the court the next day.

- (1) Public statement (2) The act of making official statement
 (3) To speak (4) To tell everyone

SPACE FOR ROUGH WORK

21. Choose correct option of comparative degree.
Alpana is very poor girl. Her friend is _____ than Alpana.
(1) richer (2) rich
(3) more rich (4) the most richer
22. Choose correct punctuation mark to make meaningful exclamatory sentence.
How beautiful the planet earth is
(1) ? (2) ,
(3) ; (4) !
23. Power saved is power _____ .
(1) created (2) generated
(3) wasted (4) got
24. I wish 'Good Bye' to my friend. She replied sending me a text message. 'CUL8R'.
Please help me to find out meaning.
(1) See you later (2) See you late
(3) See you latter (4) See you

Dialogue for Question No. 25.

Read the following dialogue and choose correct option.

Teacher : Well Narain, I hear you are taking part in the speaking competition.

Pupil : Yes Sir. I came to give me some hints on the art of public speaking.

Teacher : Never learn it by heart. Always carefully prepare what you want to say.

Pupil : But; why sir?

Teacher : You should watch your audience to see whether they understand. If they are not, you can add and emphasize and change something.

Pupil : Thanks sir. It seems so much easier.

25. The teacher advised the student to learn speech by heart but _____ to make it impressive.
(1) speak not looking at audience.
(2) watch to see if they understand. Add, emphasize and change something.
(3) Don't watch but speak fearlessly.
(4) add but don't emphasize and change.

SPACE FOR ROUGH WORK

SECTION - II

MATHEMATICS

26. Factors of a polynomial are $(x - 7)(x - 8)$. Find the polynomial.
(1) $x^2 + 15x + 56$ (2) $x^2 + 15x - 56$
(3) $x^2 - 15x + 56$ (4) $x^2 - 15x - 56$
27. Reena had some flowers. She prepared garlands from them. When she made every garland of 12 flowers, she was left with 11 flowers. If she had used 16 flowers for each garland then she would have left with 15 flowers. If she had used 18 flowers for each garland then she would have left with 17 flowers. Find the minimum number of flowers that she may have.
(1) 161 (2) 155 (3) 143 (4) 145
28. The sides forming right angle of a right angled triangle are 7 cm and 24 cm. Find the radius of the circumcircle of the triangle.
(1) 25.0 cm (2) 12.5 cm (3) 12 cm (4) 13.5 cm
29. Every year the population of a town decreases by 5% due to migration of the people. In the year 2022 the population was 9025. Find the population of the town in the year 2020?
(1) 10,000 (2) 11,000 (3) 11,025 (4) 10,250
30. The denominator of a fraction is greater than its numerator by 6. If the numerator is decreased by 1 and the denominator is increased by 9, then the new fraction is equivalent with $\frac{1}{2}$. Find the original fraction.
(1) $\frac{15}{23}$ (2) $\frac{17}{23}$ (3) $\frac{13}{19}$ (4) $\frac{23}{17}$
31. Solve. (Select two correct options)
$$\frac{3x+2}{6} + \frac{2x}{3} + \frac{x+1}{2} = 5$$

(1) $\frac{5}{2}$ (2) 2.5 (3) 3.5 (4) $3\frac{1}{2}$
32. If an article is sold for Rs. 150, certain loss is incurred. But if the article is sold for Rs. 275, the profit is one and half times the loss. Find the original price of the article.
(1) 225 (2) 250 (3) 175 (4) 200

SPACE FOR ROUGH WORK

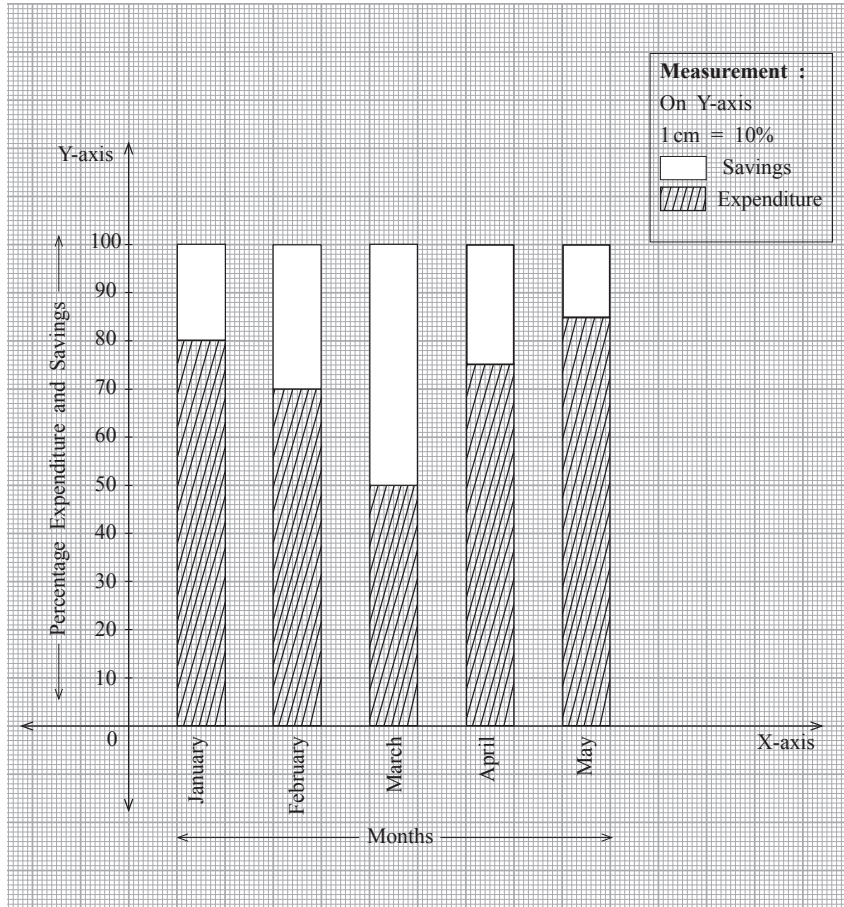
33. Simplify - $\frac{2x^2 + 7x + 6}{x^2 - 13x - 30}$
- (1) $\frac{2x+3}{x-15}$ (2) $\frac{2x-3}{x+15}$ (3) $\frac{2x-3}{x-15}$ (4) $\frac{2x+3}{x+15}$
34. To complete a job, 'A' requires 12 days. For the same job, 'B' requires 20 days to complete the job. Both of them worked together for 3 days and then A left the job. To complete the remaining job, how many days 'B' will require?
- (1) 18 (2) 15 (3) 12 (4) 10
35. Mrs. Desai purchased 30 tables. Out of that she sold 25 tables and received the same amount which she had spent to purchase 30 tables. Find the percentage of profit or loss in this transaction.
- (1) 25% profit (2) 20% profit (3) 20% loss (4) 25% loss
36. $3^x = 27^y = 9^z = 729$. Find the value of $(xyz)^{\frac{3}{2}}$.
- (1) 36 (2) 216 (3) 6 (4) 11
37. Which of the following polynomial has the co-efficient form (2, 0, 0, 0, 0, -5)?
- (1) $2x^4 - 5$ (2) $2x^6 - 5$ (3) $2x^5 - 5$ (4) $x^5 - 5$
38. A ditch 20m. long 10m. wide and 5m. deep was dug and soil was spread evenly over a ground that was 25m. long and 20m. wide. What was the thickness of the soil spread? (Choose two correct options)
- (1) 20decimeter (2) 20 cm. (3) 2.0m. (4) 20m.
39. The diameter of a ball is 20 cm. Find the volume of the air in the ball. ($\pi = 3.14$)
- (1) 41866.7 cubic cm. (2) 4186.67 sq. cm.
(3) 418.67 cm³. (4) 4186.67 cubic cm.
40. The price of a washing machine is Rs. $\left(\frac{5}{y} + \frac{x}{6}\right)$. Find the price of $\left(\frac{x}{6} - \frac{5}{y}\right)$ washing machines.
- (1) $\left(\frac{x^2}{36} - \frac{25}{y^2}\right)$ (2) $\left(\frac{x^2}{36} + \frac{25}{y^2}\right)$ (3) $\left(\frac{x^2}{36} - \frac{y^2}{25}\right)$ (4) $\left(\frac{25}{y^2} - \frac{x^2}{36}\right)$

SPACE FOR ROUGH WORK

41. A car travelled the distance 38 km, 27 km, 40 km, 35 km in the first four hours respectively. How much distance the car should travel in the fifth hour, so that the average speed of the car will be 35 km/hr?
- (1) 25 km (2) 40 km (3) 45 km (4) 35 km

Directions for Question 42 and 43.

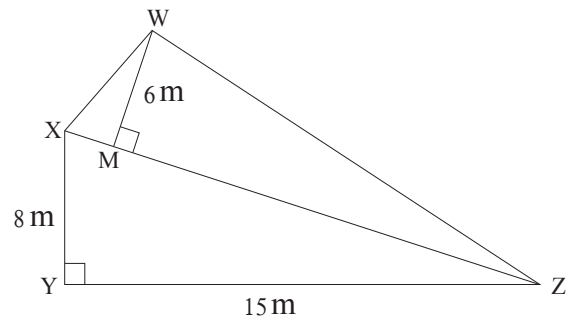
In the following ‘Percentage Bar Diagram’ the percentage of expenditure and savings of Shri Tushar is shown. Observe the graph and answer the questions that follow.



42. Shri. Tushar’s income in the month of February was Rs. 40,500. Find his savings in that month.
- (1) 12,150 (2) 28,350 (3) 12,500 (4) 28,000

SPACE FOR ROUGH WORK

43. Find the ratio of savings to expenses for the month of 'May'.
 (1) 17:3 (2) 5:17 (3) 17:5 (4) 3:17
44. Laxmanrao purchased shares worth Rs. 10,500 and paid 0.5% brokerage. Find the amount spent to purchase the shares including brokerage.
 (1) 15,052.50 (2) 52.50 (3) 10,552.50 (4) 1,044.50
45. Choose the correct alternative in which all the pairs are matched correctly.
 A) $y^2 - 17y - 60$ a. $(y - 12)(y - 5)$
 B) $y^2 - 17y + 60$ b. $(y + 20)(y - 3)$
 C) $y^2 + 17y - 60$ c. $(y - 20)(y + 3)$
 D) $y^2 + 17y + 60$ d. $(y + 12)(y + 5)$
 (1) A-c, B-d, C-a, D-b (2) A-c, B-a, C-b, D-d
 (3) A-a, B-c, C-d, D-b (4) A-d, B-b, C-a, D-c
46. The inner surface of a cylindrical well of height 14m and radius 250 cm is to be plastered with cement-sand layer. At the rate of Rs. 100 per square meter, what will be the total cost in rupees?
 (1) 22,000 (2) 22,00,000 (3) 2,20,000 (4) 220
47. A shopkeeper sold two articles with marked price Rs. 1900 to A and B. He sold one article to A by giving discount of Rs. 171 and sold another article to B by giving discount of Rs. 152. How much was the difference between the percentage of discount given to A and B?
 (1) 0.5 (2) 19 (3) 1 (4) 0.1
48. In the adjoining figure $\angle y = 90^\circ$, $l(xy) = 8\text{m}$, $l(yz) = 15\text{m}$, $WM \perp XZ$, $WM = 6\text{m}$. Find the area of the figure.



- (1) 171
 (2) 111
 (3) 162
 (4) 222

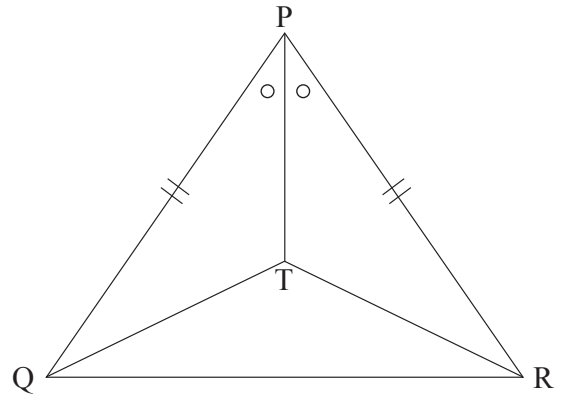
49. Two lines are intersecting each other. The measures of the vertically opposite angles in a pair are $(2x + 65)^\circ$ and $(7x - 10)^\circ$. Find the measures of each remaining angle.
 (1) 95° (2) 85° (3) 75° (4) 105°

SPACE FOR ROUGH WORK

50. AC is the diameter of a circle. 'B' is any point on the circle. Find the false statement from the following. (Choose two correct options)
- (1) $\angle BCA < 90^\circ$ (2) $\triangle BCA$ is an acute angled triangle
 (3) $\angle CAB > 90^\circ$ (4) Measurement of the arc ABC = 180°
51. Two rectangular grounds have area 1541 sq. m. and 759 sq. m. respectively. If both the grounds have same breadth, find the breadth of the ground.
- (1) 33 m. (2) 69 m. (3) 23 m. (4) 67 m.
52. If $(17 \times 19 \times 4) \div m = 161.5$ then find the value of 'm'.
- (1) 0.6 (2) 7.0 (3) 0.8 (4) 8.0
53. Find the value of $\sqrt{992\frac{1}{4}}$
- (1) 31.05 (2) 31.5 (3) 31.25 (4) 32.5
54. Which of the following is an irrational number?
- (1) 3.14 (2) $\frac{22}{7}$ (3) π (4) $3.\overline{142857}$
55. Where is the ortho centre of a right angled triangle located?
- (1) In the interior of the triangle.
 (2) On the vertex of the right angle.
 (3) In the exterior of the triangle.
 (4) Anywhere on the triangle.
56. Four numbers p, q, r and s are in proportion. Then find the correct statement from the following. (Choose two correct options)
- (1) $\frac{p}{r} = \frac{q}{s}$ (2) $\frac{p}{s} = \frac{q}{r}$ (3) $pq = rs$ (4) $sp = qr$
57. 'x' years hence, Mariya's age will be 'y' years. Then find her age 10 years before.
- (1) $y - x + 10$ (2) $y - x - 10$
 (3) $y + x + 10$ (4) $y + x - 10$
58. Find the value of 31.25%.
- (1) $\frac{5}{16}$ (2) $\frac{3}{16}$ (3) $\frac{5}{16}\%$ (4) $\frac{12}{40}$

SPACE FOR ROUGH WORK

59. In the adjoining figure $\angle TPQ \cong \angle TPR$. Side $PQ \cong$ side PR . Then by which test ΔQPT and ΔRPT are congruent?



- (1) S-A-S
 (2) S-S-S
 (3) A-S-A
 (4) S-A-A

60. The measure of an angle is $\frac{1}{5}$ times the measure of its supplementary angle. Find the measure of its complementary angle.

- (1) 30° (2) 90° (3) 150° (4) 60°

61. A school had arranged a trip and started on Saturday at 6.30 a.m. They returned the next day on Sunday, at 8.15 p.m. Duration of the trip was for how many hours?

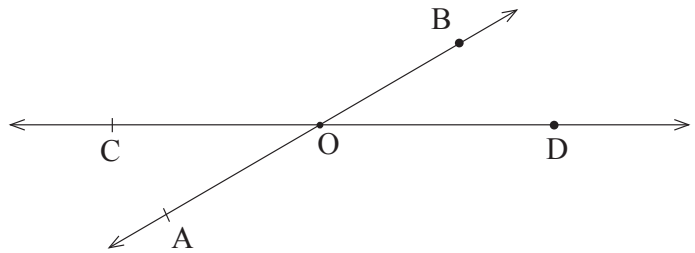
- (1) $25\frac{3}{4}$ hours (2) $37\frac{3}{4}$ hours
 (3) $37\frac{1}{4}$ hours (4) 47 hours 45 minutes

62. A square piece of paper having length 8 cm. is taken, squares of size $1\text{ cm} \times 1\text{ cm}$ are cut at its four corner places. Find the difference between the perimeters of the original paper and the paper which is cut at its corner places in cms.

- (1) 0 (2) 8 (3) 1 (4) 4

63. Observe the following figure and select the correct statements.

- (A) Line AB and line BA are different lines.
 (B) Line AB and line DC intersect at 'O'.
 (C) Point C, O and B are non-collinear points.



- (1) 'A' and 'B' are correct. (2) 'B' and 'C' are correct.
 (3) 'A', 'B' and 'C' are correct. (4) 'A' and 'C' are correct.

SPACE FOR ROUGH WORK

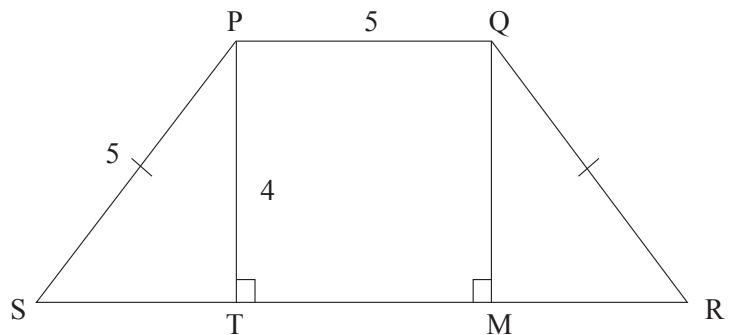
64. Find the capacity of a hollow cube whose side is 10 cm. (Choose two correct options)
- (1) 1 litre (2) 1000 cubic cm
(3) 1000 litre (4) 100 ml
65. Area of a circle is denoted by 'A' and radius by 'r'. Choose the correct statement from the following that states the correct relation of variation between A and r.
- (1) $A \propto r$ (2) $A \propto \frac{1}{r^2}$ (3) $A \propto \frac{1}{r}$ (4) $A \propto r^2$
66. Find the correct pair of twin prime numbers from the following in which the addition of twin prime numbers is more by 44 than the sum of all prime numbers between 1 to 25.
- (1) 71, 73 (2) 41, 83 (3) 59, 61 (4) 41, 43
67. If the ratio of the measures of angles of $\square ABCD$ taken in order is 7:8:4:5. Find the type of $\square ABCD$.
- (1) Kite (2) Rhombus (3) Trapezium (4) Parallelogram
68. Find the smallest number from the following such that when it is divided by every one digit prime number, every time the remainder is 1.
- (1) 106 (2) 211 (3) 31 (4) 71
69. Saurabh invested Rs. 5000 for 3 years at rate 10 p.c.p.a. with simple interest. Yashashri invested same amount for the same period at the same rate of interest with compound interest. Compare the interests earned by Saurabh and Yashashri.
(Select two correct option)
- (1) Interest received by Yashashri was less by Rs. 1655 than Saurabh received.
(2) Interest received by Yashashri was more by Rs. 155 than Saurabh received.
(3) Interest received by Saurabh was more by Rs. 155 than Yashashri received.
(4) Interest received by Saurabh was less by Rs. 155 than Yashashri received.
70. Which of the following can be the measure of an angle in the minor segment?
- (1) 45° (2) 135° (3) 180° (4) 90°

SPACE FOR ROUGH WORK

71. Find the value of $\frac{(4.9)^3 + (2.1)^3}{(4.9)^2 - (10.29 \times 1) + 4.41}$
- (1) 0.7 (2) 2.8 (3) 28.42 (4) 7.0

72. There is a regular hexagon having each side 14 cm. On every side a semicircle is drawn from outside the hexagon, taking each side as the diameter. Find the perimeter of the figure so formed.
- (1) 132 cm (2) 308 cm (3) 216 cm (4) 123 cm

73. In the adjoining figure, an isosceles trapezium is drawn. The measurements of sides of the figure are as follows.
 $l(QR) = l(PS) = 5$ units,
 $l(PQ) = 5$ units, $l(PT) = 4$ units.
 Find the area of $\square PQRS$.



- (1) 32 units
 (2) 44 sq. units
 (3) 32 sq. units
 (4) 24 sq. units

74. Instead of investing Rs. 3000 with simple interest for two and half years, if Rs. 4000 are invested with simple interest for two years, interest of Rs. 25 is earned more. What is the rate of interest?

- (1) 10% (2) 6% (3) 4% (4) 5%

75. Read the following statements and choose the correct alternative.

- (A) 29, 31 are twin prime numbers.
 (B) 29, 31 are co-prime numbers.
 (C) 29, 31 are prime numbers.
- (1) 'A', 'B', 'C' are correct. (2) Only 'A' and 'C' are correct.
 (3) Only 'B' and 'C' are correct. (4) Only 'A' and 'B' are correct.

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK