

PRE SECONDARY SCHOLARSHIP EXAMINATION (Std. 8th), FEBRUARY 2024

Seat No.

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Set



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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 ② ④
- (6) Answer recorded in any other form will not be considered. Such answer will be credited with 'Zero' mark. ② ③
- (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

Instructions for Question No. 01 and 02

Read the dialogue and choose correct option.

Ranjana - Hi Ananya!

Ananya - Hello Ranjana, How was your visit to science park, yesterday?

Ranjana - It was amazing. I got to know much about science and technology and how much progress science and technology has done? Mini Robots, use of solar energy, wonders of physics, advancement in the field of automotive.

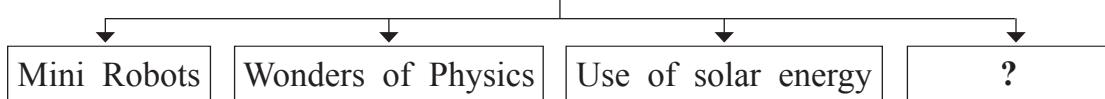
Ananya - Yes, you are right. Science has really made an impact in our lives.

- 01.** Choose correct option which is mentioned in the above dialogue.

What has really made an impact in our lives?

- (1) Science (2) Mathematics (3) Physics (4) Solar Energy

- 02.** Things seen by, Ranjana at Science Park



- (1) Advancement in the field of mechanics
(2) Underdevelopment in the field of automotive
(3) Non development in the field of automotive
(4) Advancement in the field of automotive

- 03.** Choose two correct alternative of adjective clauses in the following sentences.

- (1) He thought that he was safe there.
(2) He is the man whom we all respect.
(3) He is the boy who broke the window.
(4) He ran so quickly that he soon overtook me.

Instructions for Question No. 04 and 05

Read the letter and choose correct alternative

Sohoni Brothers,

Hospital Road,

Agra.

25th February 2024

SPACE FOR ROUGH WORK

Subject - The Agra Trade Exhibitions

Dear Sir,

This is to confirm the points agreed in our recent discussions:

- 1) We will be taking a display stand at your exhibition for our range of books.
- 2) The cost of stall and display area measuring 12 feet by 8 feet on the ground floor of the exhibition hall.

We look forward to receiving final details of location of our stand/stall before 20th February 2024.

S. B. Sohoni

04. What is missing in the letter ?

- (1) Subscription or courteous leave taking.
- (2) Subject of the letter
- (3) Body of the letter
- (4) Salutation

05. What is the display area required to the writer of the letter?

- | | |
|-------------------------|-------------------------|
| (1) 12 inches by 8 feet | (2) 12 feet by 8 inches |
| (3) 12 feet by 8 c.m. | (4) 12 feet by 8 feet |

Instructions for Question No. 06 to 08

Read the passage and choose correct alternatives.

What are the main schools of classical dancing?

The four main schools of classical dancing in India are:

Bharata Natyam, Kathakali, Manipuri, Kathak

Bharata Natyam is the oldest and most popular dance-form of India. Earlier, it was known by various names. Some called it *Bharatam*, some *Natyam*, some *Desi Attam* and some *Sadir*.

The districts of Tanjore and Kanchipuram of Tamil Nadu were the focal points in the development of *Bharata Natyam*. It was danced as a solo performance by devadasis (temple dancers) on all auspicious occasions. Later, kings and rich people lent their patronage to it and it started shedding its purely sacred character.

The dancer is directed by the *natuvanar*, who is a musician and, invariably, a teacher. Another musician plays the cymbals. The music for *Bharata Natyam* is the Carnatic school of music. The mridangam (a drum), played on both sides with the hands, provides the rhythm.

The home of *Kathakali* is Kerala. *Kathakali* literally means ‘story-play’. It combines music, dance, poetry, drama and mime. Its present form has evolved out of older forms such as *Ramanattam* and *Krishnanattam*.

SPACE FOR ROUGH WORK

Instructions for Question No. 09, 10 and 11

Read Tour Itinerary. Choose correct alternative.

Best of Kerala - 7 nights / 8 days.

Cochin, Munnar, Tekkady, Alleppey, Kovalam. Old temples, pristine beaches, scenic backwaters, colonial town, splendid monuments varied wild life are the striking features of Kerala.

City tour by bus, Luxury hotels, all type of food is available.

Day 1 - Arrival in Cochin

Day 2 - Cochin to Munnar

Day 3 - Munnar

Day 4 - Munnar to Tekkady (30km) 2.5 hours

Day 5 - Tekkady to Alleppey

Day 6 - Alleppey to Kovalam (160 km / 4.5 hours)

Day 7 - Kovalam - Trivandrum

Day 8 - Departure from Trivandrum

Suitable for young Travellers and senior citizens.

SPACE FOR ROUGH WORK

10. Choose correct alternative of what is ___ mentioned in the passage:
Tour is suitable for -
(1) Women (2) Children
(3) Senior Citizens (4) Girls
11. The striking features of Kerala are old temples, _____ beaches, scenic backwater, colonial town, splendid monuments, varied wild life.
(1) full of fishes (2) long
(3) sandy (4) pristine
12. Find out meaning of underlined non-English word.
Asanas should be practised in a clean, airy and well-lit room.
(1) Jogging (2) Yoga position
(3) Running (4) Practice
13. Choose correct alternative of noun phrase.
'A blue crab crawled sideways across the beach.'
(1) crawled (2) the beach
(3) a blue crab (4) sideways
14. Choose correct option for underlined word.
Rats and mice ran here and there all over Dick and kept him awake.
(1) walked slower (2) scampered
(3) overcame (4) dismayed
15. In Covid pandemic, WHO gave all instructions how to take care of ourselves.
(1) World healthy Org. (2) World health organization
(3) Worldly health organization (4) World Health Organization
16. The sum is difficult. But he _____ work this sum.
(1) can (2) shall
(3) have (4) need

SPACE FOR ROUGH WORK

- 17.** Choose correct option of figure of speech ‘personification’.

 - The camel is the ship of desert.
 - Words are like leaves and where they most abound.
 - Death lays his icy hand on kings.
 - Many are called, but few are chosen.

18. Which type of synthesis is used in the following sentence? Choose correct option.
Being tired of play, Atharv sat down to rest.

 - by using an infinitive
 - by using conjunction
 - by using participle
 - by using co-ordinator

19. Choose correct option of exclamatory sentence.
The moonlight very sweetly sleeps upon this bank.

 - How sweet the sleeps moonlight upon this bank!
 - What a sweet the moonlight sleeps upon this bank!
 - What the moonlight a sweet sleeps upon this bank!
 - How sweet the moonlight sleeps upon this bank!

20. Find out type of conjunction used in the sentence.
Though he is suffering much pain, yet he does not complain.

 - Co-relative conjunction
 - Co ordinating conjunction
 - Compound conjunction
 - Subordinative conjunction

21. Choose the correct ‘Wh’ question word to get the underlined part as an answer.
Aniket was fascinated by beauty of nature since childhood.

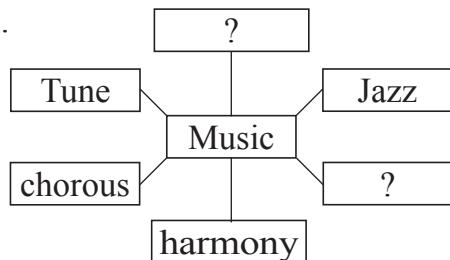
 - Who
 - What
 - How
 - Where

22. Choose two correct alternative to complete web.

 - air
 - tempo
 - invite
 - rhythm

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graph TD
    Music --> Tune
    Music --> Jazz
    Music --> chorous
    Music --> harmony
    
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SPACE FOR ROUGH WORK

Instructions for Question No. 23 and 24

Read an advertisement and choose correct alternative.

SAMI PHONE <u>SUMMER SURPRISE</u>		
Buy a SAMI PHONE and get a chance to win amazing prizes		
Buy SAMI A30	Buy SAMI A35	Buy SAMI A40
Bumper Prize 42 Inches TV	Mega Prize 52 Inches TV	Super Prize 54 Inches TV

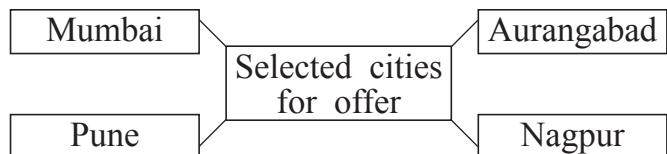
- 23.** Match the pairs:

A		B	
(1)	SAMI A30	(A)	Mega Prize
(2)	SAMI A35	(B)	Bumper Prize
(3)	SAMI A40	(C)	Super Prize

- | | |
|-------------------|-------------------|
| (1) 1-A, 2-B, 3-C | (2) 1-C, 2-B, 3-A |
| (3) 1-A, 2-C, 3-B | (4) 1-B, 2-A, 3-C |

- 24.** Find the wrong word which is not mentioned in the advertisement in the following web diagram.

- (1) Aurangabad
 - (2) Mumbai
 - (3) Pune
 - (4) Nagpur



- 25.** Choose two correct alternatives of following sentence.

Hrishikesh _____ by my question.

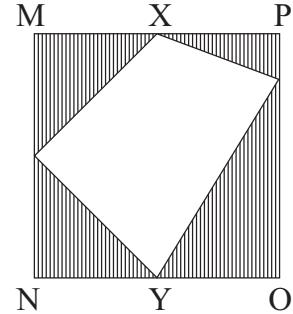
- (1) is annoying (2) had annoyed (3) is annoyed (4) was annoyed

SPACE FOR ROUGH WORK

SECTION - II

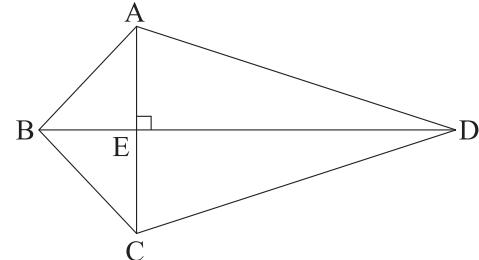
MATHEMATICS

26. $\left[\frac{1+P}{P} \right] \times \left[\frac{1-P}{P} \right] = ?$
 (1) $\frac{P^2+1}{P^2}$ (2) $\frac{1}{P^2} + 1$ (3) $1 - \frac{1}{P^2}$ (4) $\frac{1-P^2}{P^2}$
27. Surface area of a sphere is 616 sq.cm. Which of the following is an incorrect alternative related to the sphere with double the radius of that sphere?
 (1) Surface area will be 2464 sq.cm.
 (2) Surface area will be 1232 sq.cm.
 (3) Surface area will increase by 1848 sq.cm. than first sphere.
 (4) Surface area will be four times the surface area of first sphere.
28. Anjurani weighed an object and noted it's weight in four different ways as given below. Which two alternatives from the given, denote the same weight?
 (1) 12 kg. 175 deca gm. (2) 13 kg. 75 gm.
 (3) 121 hecto gm. 75 deca gm. (4) 135 hecto gm. 250 gm.
29. Side of the adjoining square MNOP is 18 cm. Points 'X' and 'Y' are the midpoints of the sides MP and NO respectively. Find the area of the shaded region.
- (1) 324 sq.cm.
 (2) 162 sq.cm.
 (3) 81 sq.cm.
 (4) 243 sq.cm.
30. $\left[\frac{(16xy + 4y^2 + 16x^2)}{(16x^2 - 4y^2)} \right] \div \left[\frac{(2y + 4x)}{(4x - 2y)} \right] = ?$
 (1) 1 (2) 0 (3) $2y + 4x$ (4) $4x - 2y$
31. A square shaped compound of a temple has side 40 m. On each side of the compound, triangular gardens of side equal to that of the side of the compound are there. What will be the total cost of 5 rounds of wire fencing for protection from their outer edges only, for all the gardens, at the rate of Rs. 80 per m of wire?
 (1) ₹ 256000 (2) ₹ 160000 (3) ₹ 512000 (4) ₹ 128000



SPACE FOR ROUGH WORK

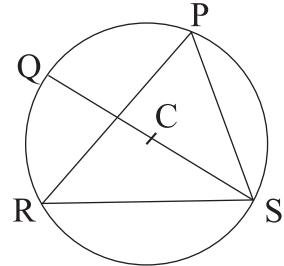
32. Rs. 9700 are invested in the bank with simple interest at the rate of 5 p.c.p.a. To get the same amount that will be received in 4 years in $2\frac{1}{2}$ years only, by how much should the rate of interest needs to be increased?
 (1) 8% (2) 5% (3) 3% (4) 2.5%
33. If $(x-y)^2 = 49$ and $(x+y)^2 = 169$ then find $(4xy) = ?$
 (1) 30 (2) 60 (3) 90 (4) 120
34. All the vertices of a triangle are on the circumference of the circle at equal distances from each other and at a distance of 14 cm. from the centre of the circle. What will be the length of the median of that triangle?
 (1) 7 cm. (2) 14 cm. (3) 21 cm. (4) 28 cm.
35. Which of the two alternative expressions from the given are perfect squares?
 (1) $(x^2 - 2 + x^{-2})$ (2) $(4m^2 - 16n^2 - 16)$
 (3) $(25p^2 + 36q^2 - 30pq)$ (4) $(64ab + 64a^2 + 16b^2)$
36. What will be the eighth odd number after the even number $(3x - 5)$?
 (1) $(3x - 22)$ (2) $(3x - 13)$ (3) $(3x + 10)$ (4) $(3x + 3)$
37. While selling an article, if Raghav increased its selling price by Rs. 384 he will have 5% profit instead of 3% loss. What should be the original price of the article?
 (1) ₹ 19200 (2) ₹ 12800 (3) ₹ 7680 (4) ₹ 4800
38. Two triangles are formed by diagonal BD of kite ABCD as shown in the figure. Which test from the following is not applicable for proving these two triangles congruent?
 (1) S-A-S (2) S-S-S
 (3) A-S-A (4) Hypotenuse-side



39. Rafiq has Rs. 28,500 with him in the form of some ₹ 2000 notes and some ₹ 500 notes only. Which of the following could be the number of ₹ 500 notes?
 (1) 57 (2) 25 (3) 23 (4) 11

SPACE FOR ROUGH WORK

40. If $\sqrt{1 - \frac{k}{25}} = \frac{4}{5}$ then 'k' = ?
 (1) 9² (2) $\sqrt{16}$ (3) 16 (4) 9
41. Area of the square hall with height 4 m. is 49 sq.m. What will be the total cost (in rupees) of colouring all the walls of that hall at the rate of Rs. 300 per sq.m.?
 (1) 11200 (2) 74000 (3) 33600 (4) 42000
42. In a transaction, if the selling price is four times the loss, then what is the percentage loss to the seller?
 (1) 20 (2) 25 (3) 12.5 (4) $1\frac{1}{4}$
43. The conical tent with height 21 m. has base circumference 176 m. How much air (in cubic m.) can be contained in that tent?
 (1) 17248 (2) 2464 (3) 7840 (4) 15680
44. How many shares of Rs. 500 each, did Pari purchased, if she spends Rs. 46350 with 3% commission?
 (1) 95 (2) 90 (3) 81 (4) 87
45. A side of a square is congruent to the 30 cm. diagonal of second square. Select an incorrect alternative from the given, for the relation between the areas of two squares.
 (1) Areas of both the squares are not equal.
 (2) Area of the second square is half that of the first square.
 (3) Area of the first square is more by 900 sq.m. than the other square.
 (4) Area of the second square is less by 450 sq.m. than the area of the first square.
46. In the adjoining circle with centre C, $m\angle PRS = 55^\circ$; then $m\angle PSQ =$?
 (1) 55°
 (2) 40°
 (3) 45°
 (4) 35°

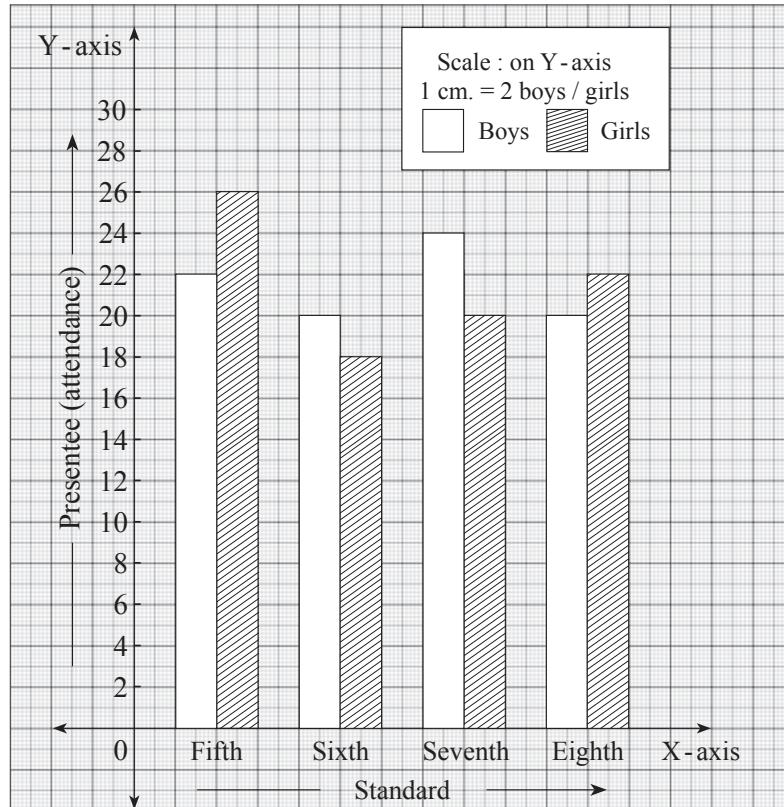


SPACE FOR ROUGH WORK

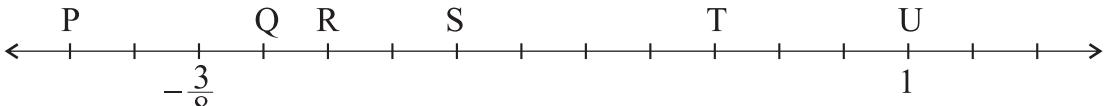
47. An obtuse angle is formed between the hour hand and minute hand of a clock. Which two alternatives from the following will correctly represent the possible time?
 (1) 1:20 hrs. (2) 11:40 hrs. (3) 4:05 hrs. (4) 8:55 hrs.
48. Ratio of the lengths of the diagonals of a 20 cm. sided rhombus is 3:4. What will be the area in sq.cm. of that rhombus ?
 (1) 768 (2) 384 (3) 192 (4) 96
49. After reading $\frac{5}{9}$ th part and 68 pages of a book, 92 pages are still remaining. What is the total number of pages of that book?
 (1) 360 (2) 280 (3) 153 (4) 117

Q. 50 and 51 Directions :

In a school, there are 50 students on roll in each of Std. V to Std. VIII. Below given joint bar diagram is representing attendance of the students Standardwise. Observe the graph and answer the questions.



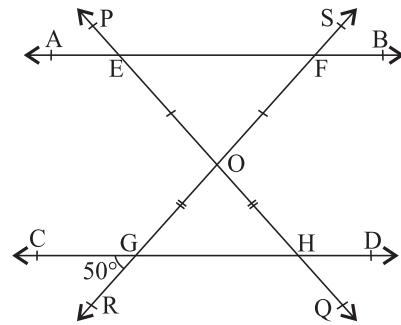
SPACE FOR ROUGH WORK

50. By what percentage the present girl's attendance is more than the present boy's attendance?
 (1) 10 (2) 2 (3) 20 (4) 2.5
51. By considering attendance of both boy's and girl's, which standard has the least attendance?
 (1) Eighth (2) Seventh (3) Fifth (4) Sixth
52. If $25\% \text{ of } 780 = M\% \text{ of } 1950$ then 'M' = ?
 (1) 10 (2) 12 (3) 8 (4) 14
53. If L.C.M. of two consecutive even numbers is 312, then what will be the sum of these two numbers?
 (1) 48 (2) 46 (3) 52 (4) 50
54. All points shown on the given number-line are at equal distances.
 $l(\text{UR}) - l(\text{QT}) = ?$
- 
- (1) $l(\text{RS})$ (2) $l(\text{TU})$ (3) $l(\text{QR})$ (4) $l(\text{SQ})$
55. Five years ago, mother's age was twice her daughter's age. If the ratio of their present ages is 11:6, then what will be the difference in their ages (in years) five years hence.
 (1) 20 (2) 25 (3) 30 (4) 35
56. If $a + b = 13$ and $ab = 36$ then $a^2 + b^2 = ?$
 (1) 169 (2) 81 (3) 97 (4) 16
57. Which of the two options given below are incorrect statements?
 (1) All integers are not real numbers.
 (2) Some rational numbers are integers.
 (3) All rational numbers are integers.
 (4) Some integers are not whole numbers.
58. Following table shows the subjectwise marks scored by a student in a summative test. Find the average marks.

Subjects	Marathi	Hindi	Maths	Science	Social Science
Marks	32	36	48	44	40
(1) 40	(2) 38	(3) 42	(4) 36		

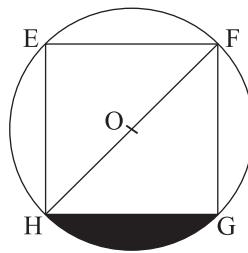
SPACE FOR ROUGH WORK

59. In the adjoining figure, line $AB \parallel$ line CD and $m\angle RGC = 50^\circ$, then find $m\angle SFA - m\angle PEA = ?$
- 50°
 - 80°
 - 100°
 - 130°
60. $4b - 2a + 5 - 3b - 9 + 5a - 4 + 3b - 2a = ?$
- $4b + 9a - 4$
 - $2a + 4b - 8$
 - $a - 4b - 8$
 - $a + 4b - 8$
61. What will be the difference in rupees in the simple interest and the compound interest earned on Rs. 5000 in 2 years at the rate 5 p.c.p.a.?
- 12.5
 - 25
 - 37.5
 - 50
62. Average weight of Siya and Nisha is 29 kg. Average weight of Fiza and Siya is 26 kg. If the total weight of Nisha and Fiza is 50 kg., what will be the maximum weight (in kg.) amongst the three girls?
- 25
 - 28
 - 30
 - 34
63. A work is completed by some workers in a few days. If the number of workers is made $\frac{2}{3}$ rd times the original number of workers, then how many times will be the days required to be increased than the original to complete the same work?
- $\frac{2}{3}$
 - $1\frac{1}{2}$
 - $\frac{1}{4}$
 - $\frac{1}{2}$
64. Length of the longest chord of a circle is 7 m. What will be the length of the parallel chord to it, at a distance of 2.1 m. ?
- 2.8 m.
 - 5.6 m.
 - 4.2 m.
 - 3.5 m.
65. If $16^3 = \sqrt{4^{(k-5)}}$; then $k = ?$
- 1
 - 6
 - 12
 - 17



66. In the adjoining figure, $\square EFGH$ is a rhombus with diagonal 28 cm. and vertices are on the circle with centre 'O'. Find the area of the shaded region.

- (1) 56 sq.cm. (2) 112 sq.cm.
 (3) 105 sq.cm. (4) 210 sq.cm.

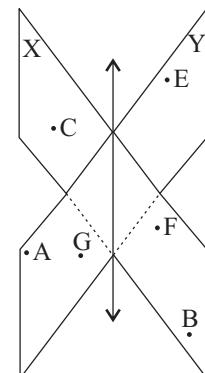


67. Which of the following two alternatives are perfect cube numbers?
 (1) 0.0270 (2) (-0.000625) (3) (-13.310) (4) 0.0729
68. By how much is the greatest of the following numbers is greater than the smallest of the given numbers. $\frac{5}{14}, \frac{1}{2}, \frac{7}{15}, \frac{6}{7}, \frac{3}{5}$
 (1) $\frac{5}{14}$ (2) $\frac{1}{30}$ (3) $\frac{2}{15}$ (4) $\frac{1}{2}$

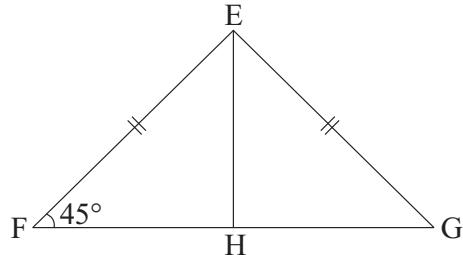
69. 'Diagonals of the _____ are perpendicular bisectors of each other.'
 Choose the correct alternative from given options to complete the above statement.
 (A) Rectangle (B) Square (C) Rhombus
 (D) Parallelogram (E) Kite
 (1) Only A and B (2) Only B and C
 (3) Only B, C and E (4) Only A, B and E

70. Observe the two planes X and Y shown in the diagram and select 'two correct' statements from given.

- (1) Points F, B and C are belonging to different planes.
 (2) A line is formed where two planes intersect.
 (3) Point A, G and E are non-collinear points lying in the same plane.
 (4) Two planes are parallel to each other.

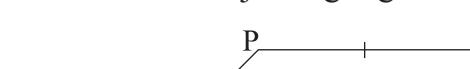


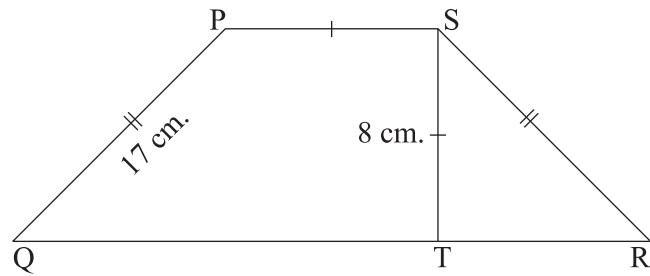
SPACE FOR ROUGH WORK



74. Height of the trapezium PQRS shown in the adjoining figure is 8 cm.
 $\text{seg } ST \cong \text{seg } PS$ and
 $l(PQ) = l(SR) = 17\text{cm.}$
 Then find the perimeter
 of $\square PQRS$ in cm.

(1) 80 (2) 96
 (3) 88 (4) 72





SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK