SHME
SCHOLARS HUNT MATHEMATICS EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Shapes and Space, Number system, Addition, Subtraction, Money, Time, Measurement, Geometrical skills.

Section 2: Patterns, Grouping of figures, Ranking test, Measuring units, Geometric shapes, ODD one out, Analogy, Spatial understanding, Symmetry.

SHSE
SCHOLARS HUNT SCIENCE EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Living and Non Living things, Plants, Animals, Human Beings and their Needs, Good Habits and Safety Rules, Air and Water, Weather and the Sky.

Section 2: Patterns, Grouping of figures, Ranking test, Measuring units, Geometric shapes, ODD one out, Analogy, Spatial understanding, Symmetry.

SHME
SCHOLARS HUNT MATHEMATICS EXAM
SUBJECTIVE QUESTIONS

Section 1:

1. Which one of the following is correct?

a. Cloth is measured in kilometres.
b. Height is measured in kilometres.
c. Long distance is measured in centimetres.
d. Height of a person is measured in foot.

2. Murali gave Rs. 50 to buy this toy car. How much change will he get?

a. Rs. 90
b. Rs. 100
c. Rs. 20
d. Rs. 10

3. Which of the following options has the smallest value?

a. $50 + 6$ b. $50 + 9$ c. $60 + 12$ d. **$50 + 3$**

Section 2:

4. Choose correctly numbered option from smaller to longer.

a. 2, 3, 1   b. 3, 1, 2   **c. 3, 2, 1**   d. 1, 2, 3

5. Which of the following is 9th from right end in the given arrangement?

Y K + P B N J K T % # G $ V S O P * @ F C X A

a. **S**   b. T   c. %   d. @

SHSE

SCHOLARS HUNT SCIENCE EXAM
SUBJECTIVE QUESTIONS

Section 1:

1. Which of the following activities should you do?

a. Pluck flowers or leaves when you go to a park.   b. Write on the trunk of trees.

c. **Grow more and more plants.**   d. Throw stones at the fruits on trees.

2. If we do not take healthy food regularly what can happen to us?

a. **We can fall sick.**   b. We can get charged up.

c. We can get a prize in school.   d. We can become strong and healthy.

3. Which of these activities helps us to build strong bones and muscles?

a. Eating more nutritious food   b. Doing exercise regularly

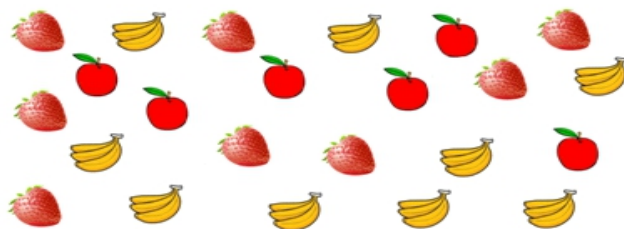c. Taking good rest   d. **All of these**

Section 2:

4. How many groups of 3 Banana can be formed from given?

a. 5   **b. 3**

c. 4   d. 7

5. Which of the following is best for climbing up?

a.   b.   c.   d.

SCHOLARS HUNT — SAMPLE PAPER 2024-25 — CLASS 2

SHME — SCHOLARS HUNT MATHEMATICS EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Pattern, Number system, Addition, Subtraction, Length, Weight & Capacity, Time, Money, Lines, Shapes, Pictograph

Section 2: Patterns, Grouping figures, Ranking test, Measuring units, Geometrical shapes, ODD one out, Analogy, Coding decoding, Symmetry, Embedded figures

SHSE — SCHOLARS HUNT SCIENCE EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Plants, Animals, Human Body, Food, Housing and Clothing, Family and Festivals, Occupations, Good Habits and Safety Rules, Transport and Communication, Air, Water and Rocks, Earth and Universe.

Section 2: Patterns, Grouping figures, Ranking test, Measuring units, Geometrical shapes, ODD one out, Analogy, Coding decoding, Symmetry, Embedded figures

SHME — SCHOLARS HUNT MATHEMATICS EXAM
SUBJECTIVE QUESTIONS

Section 1:

1. Which one of the following is correct about the places of digits of 7654?

    a. Units = 4 tens = 5, hundreds = 7 and thousands = 6

    b. Units = 5 tens = 4, hundreds = 6 and thousands = 7

    c. **Units = 4, tens = 5, hundreds = 6 and thousands = 7**

    d. All the above

2. How many minutes does the minute hand take to move from 3 to 9?

    a. 6 min   **b.** 10 min   **c.** 20 min   **d. 30 min**

3. Find the missing number in the following.

a. 597   b. 97   c. 90   **d. 9**

Section 2:

4. If wall is called window, window is called door, door is called floor, floor is called roof
   and roof is called ventilator, what will a person stand on?
   a. Floor   b. Window   c. **Roof**   d. Ventilator

5. How many groups of 3 can be formed in the given image?

a. 5   **b. 6**

c. 7   d. 9

S H S E SCHOLARS HUNT SCIENCE EXAM
SUBJECTIVE QUESTIONS

Section 2:

1. Which one of the following is an oil producing plant?
   a. Mustard   b. Coconut   c. Mango tree   **d. Both [a] and [b]**

2. Always walk on the _____ and cross the road at a _____ if there is one.
   a. Zebra crossing, Footpath   **b.** Road, Zebra crossing   **c. Footpath, Subway**   **d.** Road, Footpath
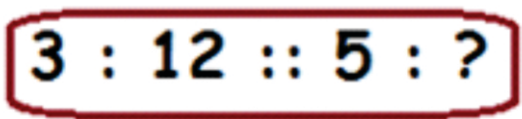
3. Which of the following is/are medicinal plant?
   a. Peepal tree   **b.** Sandalwood plant   **c.** Ashok tree   **d. All of these**

Section 2:

4. Which of the following will replace the question mark in the given correlation?

a.12   b. 14

$$3 : 12 :: 5 : ?$$

c. **20**   d. 15

5. Fill in the blank.

_____ book is fourth from the right end

a.S   b. U   **c. T**   d.

SHME
SCHOLARS HUNT MATHEMATICS EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Knowing our Numbers, Whole Numbers, Playing with Numbers, Basic Geometrical Ideas, Understanding Elementary Shapes, Integers, Fractions, Decimals, Data Handling, Menstruation, Algebra, Ratio and Proportion, Symmetry, Practical Geometry.

Section 2: Alphabet test, Number series, Analogy and classification, Ranking test , Logical sequence of words and letters, Coding decoding, Blood relations, Direction sense test, Mirror image, Geometrical shapes, Grouping of figures and matrix, Embedded figures, Days and dates and possible combination.

SHSE
SCHOLARS HUNT SCIENCE EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Food and its Components, Fibre to Fabric, Sorting and Separation of Materials, Change around us, The world of Living, Motion and Measurement of Distances, Light, Shadow and Reflections, Electricity and Circuits, Fun with Magnets, Our Environment.

Section 2: Alphabet test, Number series, Analogy and classification, Ranking test , Logical sequence of words and letters, Coding decoding, Blood relations, Direction sense test, Mirror image, Geometrical shapes, Grouping of figures and matrix, Embedded figures, Days and dates and possible combination.

SHME
SCHOLARS HUNT MATHEMATICS EXAM
SUBJECTIVE QUESTIONS

Section 1:

1. Which one among the following statements is true?

   a. 12 AM denotes midnight.

   b. 12 PM denotes noon

   c. The second half of the day from moon to midnight is called P.M.

   d. All the above

2. A number is added to 15, it becomes 29. If that number is added to 8, then it gives_____

   a. 22   b. 26   c. 28   d.   30

3. Milk + Milk + Milk + Milk = 900 ml, then Milk = _____.

    a. 200 ml   **b. 225 ml**   **c.** 250 ml   **d.** 150 ml

Section 2:

4. Introducing a woman, Sanjay said, "She is the mother of the only daughter of my son."

   How that woman is related to Sanjay?

    a. Daughter   **b. Daughter-in-law**   c. Wife   d. Sister-in-law

5. If in a certain language SISTER is coded as 535301, UNCLE is coded as 84670 and BOY as 129,

   how SON is coded?

    a. 535   b. 129   **c. 524**   d. 467

S H M E   SCHOLARS HUNT SCIENCE EXAM
<u>SUBJECTIVE QUESTIONS</u>

Section 1:

1. Movement of blades of the fan is an example of:

    a. Non uniform motion   b. Linear motion   **c. Circular motion**   d. Irregular Motion

2. _____energy is obtained from sun.

    a. Wind   **b. Solar**   **c.** Coal   **d.** Water

3. Some animals first swallow the food without chewing it. After sometime, when they relax they
   bring this food back into their mouth from stomach. Then they chew it well very slowly.
   Such animals are called:

    a. gnawing animals   **b. cud chewing animals**

    c. blood sucking animals   **d.** flesh eating animals

Section 2:

4. What date falls one week after 21st of February?

    a. 22nd   b. 23rd   c. 27th   d. **28th**

5. If a boy was walking in the North-west direction, then turned to walk the opposite way, what would
   be a boy's new direction?

    a. South-east   b. South   c. East   d. South-west

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INDIA'S NO.1

SAMPLE PAPER 2024-25

CLASS 4

SHME
SCHOLARS HUNT MATHEMATICS EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Geometry, Number system, Addition & Subtraction, Multiplication & division, Fraction, Measurement, Time & Calendar, Handling data.

Section 2: Alphabet test, Number series, Analogy and classification, Ranking test , Logical sequence of words and letters, Coding decoding, Blood relations, Direction sense test, Mirror image, Geometrical shapes, Grouping of figures and matrix, Embedded figures, Days and dates and possible combination.

SHSE
SCHOLARS HUNT SCIENCE EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Plants, Animals, Food and Digestion, Clothing, Matter and Materials, Force, Work and Energy, Our Environment, Earth and Universe.

Section 2: Alphabet test, Number series, Analogy and classification, Ranking test , Logical sequence of words and letters, Coding decoding, Blood relations, Direction sense test, Mirror image, Geometrical shapes, Grouping of figures and matrix, Embedded figures, Days and dates and possible combination.

SHME
SCHOLARS HUNT MATHEMATICS EXAM
SUBJECTIVE QUESTIONS
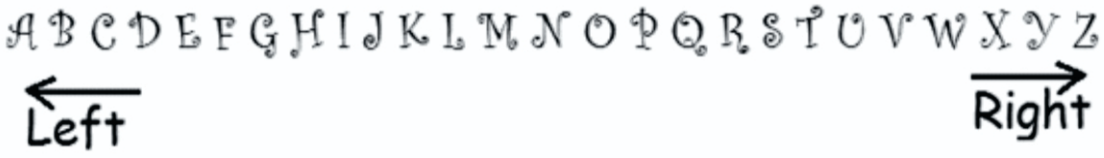
Section 1:

1. Which basic Roman numeral can never be subtracted?
   a. X   b. I   c. **V**   d. L

2. Sam distributed a certain amount of money among 24 persons equally. Now he has Rs. 512342. If the total amount of money Sam had Rs. 5465555, find the amount of money received by each person individually.
   a.Rs. 206383.875   b. Rs. 206083.875   c. Rs. 206183.805   d. Rs. 306383.875

3. Which of these is a common factor of 42 and 84?

a. 13 **b. 7** c. 28 d. 4

Section 2:

4. Introducing a man, a woman says, "He is brother of my husband". How is a man related to woman?

a. Brother **b. Brother-in-law** c. Father d. Father

5. Which letter will come exactly between the tenth letter from your left and the seventh letter from your right in the alphabetic series?

Hint:

$A B C D E F G H I J K L M N O P Q R S T U V W X Y Z$

← Left

Right →

a. N **b. O** c. U d. G

SHSE SCHOLARS HUNT SCIENCE EXAM
SUBJECTIVE QUESTIONS

Section 1:

1. Select the correct match from the following.

a. Incisor – Juice b. Canine – Grinder c. Molar – Scissor **d. Premolar - Grinder**

2. I have a tail and gills like a fish, I swim in water but I can jump and hop when I'll grow up. Who am I?

a. Maggot **b.** Nymph **c.** Caterpillar **d. Tadpole**

3. Which is the most important mineral for healthy teeth?

a. Iron **b. Calcium** **c.** Potassium **d.** Sodium

Section 2:

4. If the code for KING is JJMH than what will be the code for QUEEN

a. RVFFO b. **PVDFM** c. NEEUQ d. PTDDM

5. Arrange the given words in meaningful sequence and choose the most appropriate sequence.

1. **Farm** 2. **Flowers** 3. **Trees** 4. **Fruits** 5. **Juice**

a.1,2,3,4,5 b. 3,1,4,2,5 **c.1,3,2,4,5** d. 3,1,2,4,5

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CLASS 5

SHME
SCHOLARS HUNT MATHEMATICS EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Numbers and Operations, Arithmetic Operations, Decimals and Fractions, Measurements, Lines and Angles, Perimeter and Area, Geometrical shapes and Symmetry, Data Handling

Section 2: Patterns, Analogy and Classification, Mirror Image, Coding-Decoding, Direction Sense, Blood Relations, Ranking Test, Alphabet Test, Logical Sequence of words, Puzzle Test.

SHSE
SCHOLARS HUNT SCIENCE EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Plants and Animals, Our health and body, natural recourses, pollution and Calamities, earth and universe, matter, force, Work and Energy

Section 2: Patterns, Analogy and Classification, Mirror Image, Coding-Decoding, Direction Sense, Blood Relations, Ranking Test, Alphabet Test, Logical Sequence of words, Puzzle Test.

SHME SCHOLARS HUNT MATHEMATICS EXAM
SUBJECTIVE QUESTIONS

1. What is the sum of first ten odd natural numbers?
   - a. **100**
   - b. 75
   - c. 50
   - d. 10

2. Choose the correct option to fill up the blank in given relation.
   56, 32, 42, 387 _____ 56, 32, 24, 387
   - a. **>**
   - b. <
   - c. =
   - d. None of these

3. How many lines of symmetry does the given figure have?

   - a. **0**
   - b. 1
   - c. 2
   - d. 4
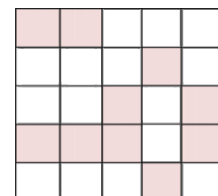
LOGICAL REASONING

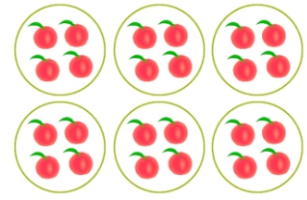4.   There are _____ groups of _____ tomatoes.

   a.   4, 24   b.   **6, 4**

   c.   6, 24   d.   4, 6

5.   Mohit ranked fifteenth from the top and twenty ninth from the bottom among those who passed an examination. Six boys did not participate in the competition and seven failed in it. How many boys were there in the class?

   a.   54   b.   44

   c.   **56**   d.   46

SCHOLARS HUNT SCIENCE EXAM
SUBJECTIVE QUESTIONS

1. If you break a magnet into two pieces, what happens to its magnetic poles?

a. There is no effect.   b. **Each magnet will have a north and south pole.**

c. Each magnet will have two north polesd. d. Each magnet will have two south poles.

2. Select the odd one out on the basis of body covering.

   a.   **b.**   c.   d.
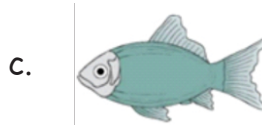
3.   What of the life processes below occur in both people and trees?

   a.   Making food and growth
   b.   Germination and reproduction
   c.   **Growth and movement**
   d.   Reproduction and making food

LOGICAL REASONING

4.   Ajit pointed out at the photograph of a girl and said, she is the daughter of the only daughter of my mother." How Ajit is related to that girl?

a. **Uncle**   b. Brother   c. Cousin   d. Father

5.   Choose the correct mirror image of the given number.

   a.   b.   c.   d.

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SAMPLE PAPER 2024-25

CLASS 6

SHME

SCHOLARS HUNT MATHEMATICS EXAM.
SYLLABUS

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

Section 1: Knowing our Numbers, Whole Numbers, Playing with Numbers, Basic Geometrical Ideas, Understanding Elementary Shapes, Integers, Fractions, Decimals, Data Handling, Menstruation, Algebra, Ratio and Proportion, Symmetry, Practical Geometry

Section 2: Series completion and Inserting the missing character, Analogy and Classification, Coding-Decoding, Blood Relations, Direction Sense Test, Logical Venn Diagrams, Puzzle, Mathematical Operations, Analytical reasoning, Mirror & Water images, Embedded Figures, Figure matrix, Ranking

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SHSE

**SCHOLARS HUNT SCIENCE EXAM.**
SYLLABUS

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

Section 1: Food and its Components, Fibre to Fabric, Sorting and Separation of Materials, Change around us, The world of Living, Motion and Measurement of Distances, Light, Shadow and Reflections, Electricity and Circuits, Fun with Magnets, Our Environment

Section 2: Series completion and Inserting the missing character, Analogy and Classification, Coding-Decoding, Blood Relations, Direction Sense Test, Logical Venn Diagrams, Puzzle, Mathematical Operations, Analytical reasoning, Mirror & Water images, Embedded Figures, Figure matrix, Ranking

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SHME SCHOLARS HUNT MATHEMATICS EXAM
SUBJECTIVE QUESTIONS

1. The given figure is made up of two rectangles. Find its total area.

   a. 144 cm^2 b. 300 cm^2

   c. 216 cm^2   d. 240 cm^2
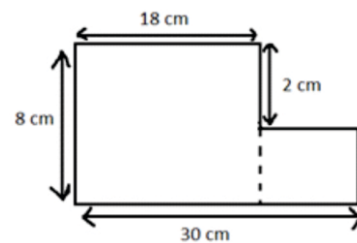
2. A school van comers a distance of 39.35 km to pick students from their homes in a day. What distance will it cover in 74 days?

   a. 2910.35 km   **b. 2911.90 km**   c. 2920.50 km   d. 2939.35 km

3. Priya draw the following figure on a piece of paper. What fraction of the figure is unshaded?

a. $\frac{1}{8}$ b. $\frac{5}{8}$ c. $\frac{3}{8}$ d. $\frac{1}{4}$
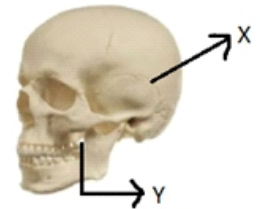
LOGICAL REASONING

4. In the alphabetic series, if the series is written in reverse order and every alternate alphabet is removed than which of the following will be 9th from the left?

a. **J**   b. M   c. B   d. U

5. Introducing a woman, Sanjay said, "She is the mother of the only daughter of my son." How that woman is related to Sanjay?

a. Daughter   **b. Daughter-in-law**   c. Wife   d. Sister-in-law

S H S E   SCHOLARS HUNT SCIENCE EXAM
SUBJECTIVE QUESTIONS

1. Change in state of matter from liquid in to solid is known as:

a. Melting   b. Boiling   **c. Freezing**   d. Solidifying

2. In the given figure which of the following is correct about X and Y?

a.   X type of joint is also found in between vertebrate.
b.   X type of joint shows no movement at all.
c.   Y type of joint is also present in our elbow.
d.   **Both B and C**

3. The constellation shown in the given figure is:

a.   **Ursa minor**   b.   Ursa major
c.   Orion   d.   Cassiopeia

LOGICAL REASONING

4. Which of the following will replace the question mark in the given figure?

a.   **12**   b. 8   c. 20   d. 9

5. If P denotes 'multiplied by', Q denotes 'subtrated from ', R denotes 'added to', and S denotes 'divided by', then

a.   30   b. 28

c. **20**   d. 32

42S7P4Q6R2=?

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SAMPLE PAPER 2024-25

CLASS 7

S H M E
SCHOLARS HUNT MATHEMATICS EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Integers, Fractions and Decimals, Data Handling, Simple Equations, Lines and Angles, The Triangle and its Properties, Congruence of Triangles, Comparing Quantities, Rational Numbers, Practical Geometry, Perimeter and Area, Algebraic Equations, Exponents and Powers, Symmetry, Visualising Solid Shapes

Section 2: Series completion and Inserting the missing character, Analogy and Classification, Coding-Decoding, Blood Relations, Direction Sense Test, Logical Venn Diagrams, Puzzle, Mathematical Operations, Analytical reasoning, Mirror & Water images, Embedded Figures, Figure matrix, Ranking

S H S E
SCHOLARS HUNT SCIENCE EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Nutrition in Plants and Animals, Heat, Fibre to Fabric, Acids, Bases and Salts, Physical and Chemical Changes, Adaption of Animals to Climate, Winds, Storms, Natural Resources and their Conservation, Respiration in Organisms, Transportation in Plants and Animals, Reproduction in Plants, Motion and Time, Electric Current and its Effects, Light

Section 2: Series completion and Inserting the missing character, Analogy and Classification, Coding-Decoding, Blood Relations, Direction Sense Test, Logical Venn Diagrams, Puzzle, Mathematical Operations, Analytical reasoning, Mirror & Water images, Embedded Figures, Figure matrix, Ranking.

S H M E
SCHOLARS HUNT MATHEMATICS EXAM
SUBJECTIVE QUESTIONS

1. What is the difference between 3a+2b and –2a–5b?
   a. **5a+7b**
   b. –5a–7b
   c. 5a–7b
   d. a–3b

2. Two students drew a line segment each. What is the condition for them to be congruent?

   a.   They should be drawn with a scale.

   b.   They should be drawn on the same sheet of paper.

   c.   They should have different lengths.

   d.   They should have the same length.

3. If 150% of a number is 900. What is the number?

   a.   450   **b.   600**   c.   1350   d.   1800

LOGICAL REASONING

4. In a group of 40 boys, Raju is 12th from the left end and Raghu is 17th from the right end. If Dilip is placed exactly between them what is his rank from right hand?

   a.   22   **b.   23**

   c.   24   d.   25

5. If 'South-east' is called 'East', 'North-west' is called 'West', 'South-west' is called 'South' and so on, what will 'North' be called?

   a.   East   b.   North-east

   c.   South   **d.   North-west**

SHSE

SCHOLARS HUNT SCIENCE EXAM
SUBJECTIVE QUESTIONS

1. Deficiency of vitamin B6 causes:

   a. Diarrhea   b. Anemia   c. Mouth-ulcers   **d. Skin disorders**

2. Which one of the following has 4 chambered heart?

   a.   Crocodile   b. Fish   c. Frog   d. Earthworm

3. Which of the following is used for splitting sunlight into seven colors?

   a.   A prism   b. A plane mirror   c. A concave mirror   d. A convex lens

LOGICAL REASONING

4. How many such digits are there in the number 57394162 each of which is as far away from the beginning of the number as when they are arranged in descending order?

   a. One   **b.   Two**

   c. Three   d.   More than three

5. Find the number of cubes in the given figure.

   a.   10   **b.   20**

   c.   16   d.   22
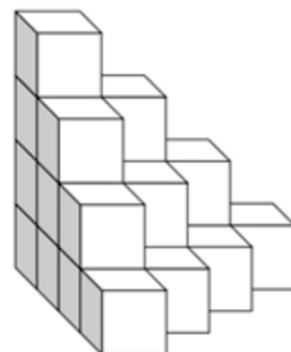
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SAMPLE PAPER 2024-25

CLASS 8

SHME
SCHOLARS HUNT MATHEMATICS EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Rational Numbers, Linear Equations in one Variable, Quadrilaterals, Practical Geometry, Data Handling, Squares and Square roots, Comparing Quantities, Algebraic Expressions and Identities, Visualising Solid Shapes, Menstruation, Exponents and Powers, Direct and Inverse Proportions, Factorisation, Introduction to Graphs

Section 2: Series Completion, Analogy, Classification, Coding-Decoding, Blood Relations, Puzzle Test, Sequential Output Tracing, Direction Sense, Logical Venn Diagrams, Alphabet Test, Ranking Test, Mathematical Operations, Figure Matrix

SHSE
SCHOLARS HUNT SCIENCE EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Crop Production and Management, Microorganisms, Fibres and Plastics, Metals and Non-Metals, Coal and Petroleum, Combustion and Flame, Plants and Animals, Cell, Reproduction and Endocrine System, Force and Pressure, Friction, Sound, Some Natural Phenomena, Light, Solar System, Pollution and Air and Water

Section 2: Series Completion, Analogy, Classification, Coding-Decoding, Blood Relations, Puzzle Test, Sequential Output Tracing, Direction Sense, Logical Venn Diagrams, Alphabet Test, Ranking Test, Mathematical Operations, Figure Matrix

SHME
SCHOLARS HUNT MATHEMATICS EXAM
SUBJECTIVE QUESTIONS

1. Rahul has 6 wooden sticks of equal length. He wants to join all of them in such a way that they make a regular polygon. At what internal angle he has to join wooden stick with each other?
   a. 105^0 **b. 120^0**   c. 115^0 d. 90^0

2. To draw the graph of a line, the least number of points required is _____.
   a. 1   **b. 2**   c. 3   d. 4

3. 8 men can do a piece of work in 10 days. How long will 10 men take to do the same work?

   a.   12 days   **b.   8 days**   c.   7 days   d.   6 days

LOGICAL REASONING

4. Which of the following will replace the question mark in the given figure?

   a.   11
   b.   12
   c.   22
   d.   33
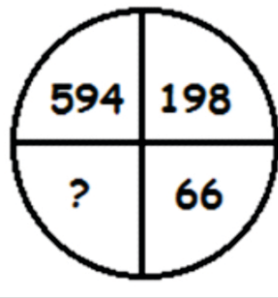
5.   If A + B means A is the daughter of B ; A x B means A is the son of B and A - B means A is the wife of B then which of the following is true for P x Q - S?

   a. P is daughter of Q   b.   Q is father of P

   c. S is father of P   d.   S is wife of Q

SHSE   SCHOLARS HUNT SCIENCE EXAM
SUBJECTIVE QUESTIONS

1. Which of the given planets is the brightest?

   a.   Mercury   **b.   Venus**   c.   Mars   d.   Jupiter

2. If the temperature increases, then what happens to the frequency of the sound produced by an organ pipe?

   a.   Increases   b.   Decreases   c.   Unchanged   d.   Can't say

3. A species which is at risk of becoming extinct in the near future is known as _____ species.

   a.   Endemic   b.   Extinct   **c.   Endangered**   d.   Vulnerable

LOGICAL REASONING

4. Choose a figure which would most closely resemble the unfolded form of Figure (B).

   a. 1

   b. 2

   c. 3

   d. 4
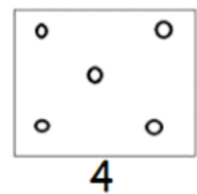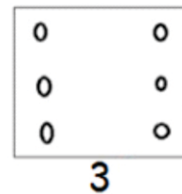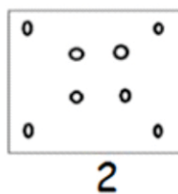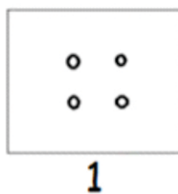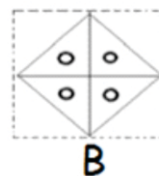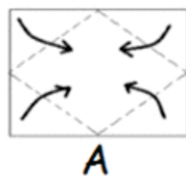
5. Find the missing terms in the given series :-   olo_ono_om_n_lom

   a.   onoo   **b.   mloo**   c.   nolo   d.   ooom

PATTERN & MARKING SCHEME

SHME

SCHOLARS HUNT MATHEMATICS EXAM.

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Number System, Polynomials, Coordinate Geometry, Linear Equations in Two Variables, Euclid's Geometry, Lines and Angles, Triangles, Quadrilaterals, Area of Parallelograms and Triangles, Circles, Constructions, Heron's Formula, Surface Areas and Volumes, Statistics, Probability.

Section 2: Series Completion, Analogy, Classification, Coding-Decoding, Blood Relations, Puzzle Test, Sequential Output Tracing, Direction Sense, Logical Venn Diagrams, Alphabet Test, Ranking Test, Mathematical Operations, Figure Matrix.

PATTERN & MARKING SCHEME

SHSE

SCHOLARS HUNT SCIENCE EXAM.

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Matter in Our Surroundings, Matter Around Us Pure, Atoms and Molecules, Structure of Atom, Cell-The Fundamental Unit of Life, Tissues, Diversity in Living Organisms, Motion, Force and Laws of Motion, Gravitation, Work and Energy, Sound, Natural Resources, Food Resources.

Section 2: Series Completion, Analogy, Classification, Coding-Decoding, Blood Relations, Puzzle Test, Sequential Output Tracing, Direction Sense, Logical Venn Diagrams, Alphabet Test, Ranking Test, Mathematical Operations, Figure Matrix.

SHME

SCHOLARS HUNT MATHEMATICS EXAM
SUBJECTIVE QUESTIONS

1. Find the cost of laying grass in a triangular field of sides 50 m, 65 m and 65 m at the rate of Rs. 7 per m^2.

   a. Rs. 9500   b. Rs. 11000   **c. Rs. 10500**   d. Rs. 12500

2. In the given figure, if PQRS is a cyclic quadrilateral with respective angles. Then, the ratio of x and y is _____.

   a.   1:3   **b. 5:6**
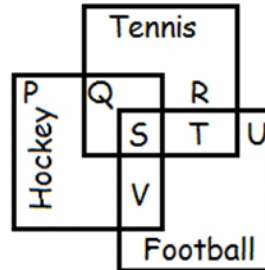   c.   2:3   d. None of these
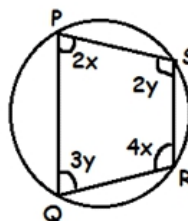
3. A die is thrown once, what is the probability of getting a number greater than 6?

    a. $\frac{1}{2}$ b. $\frac{2}{3}$ c. $\frac{1}{3}$ d. 0

LOGICAL REASONING

4. The given diagram represents those people who play hockey, football and tennis. See the diagram and find out those people who can play all the three games.

    a.   T+U

    b.   Q+R

    c.   S

    d.   P+Q+R

5. In this question three out of four alternatives contain letters of the alphabet placed in a particular form. Find the one that does not belong to the group.
    a.   JKMP   b.   GHJM   **c.   STWZ**   d.   KLNQ

S H S E   SCHOLARS HUNT SCIENCE EXAM SUBJECTIVE QUESTIONS

1. Organisms like lichens are very sensitive to the levels of:
a. Carbon dioxide   **b. Sulphur dioxide**   c. Carbon monoxide   d. Methane

2. A truck and a car having equal kinetic energies are stopped by applying equal retarding force. If S_1 and S_2 are the distances covered by truck and car respectively, before stopping, then:
    a. $S_1 = S_2$ b. $S_1 > S_2$ c. $S_1 < S_2$ d. Cannot say

3. Blue revolution refers to the drastic increase in the production of_____.
a. Milk   b. Cereals   c. Water   **d. Fish**

LOGICAL REASONING

4. In the given number series, one of the numbers does not fit into the series. Find the wrong number. 2, 5, 11, 27, 58, 121, 248
    a. 5   b. 121   **c. 11**   d. 58

5. After walking 20km, a girl turned left and covered the distance of 10km, then turned right and covered the distance of 12km. In the end she was moving towards North. From where did she start the journey?

a. East   b. West   c. North   **d. South**

S H M E

SCHOLARS HUNT MATHEMATICS EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Real Numbers, Polynomials, Pair of Linear equations in two variables, Quadratic Equations, Arithmetic Progressions, Triangles, Coordinate Geometry,, Introduction to Trigonometry, Some Applications of Trigonometry, Circles, Constructions, Areas Related to Circles, Surface Areas and Volumes, Statistics, Probability.

Section 2: Series Completion, Analogy, Classification, Coding-Decoding, Blood Relations, Puzzle Test, Sequential Output Tracing, Direction Sense, Logical Venn Diagrams, Alphabet Test, Ranking Test, Mathematical Operations, Figure Matrix.

S H S E

SCHOLARS HUNT SCIENCE EXAM.

PATTERN & MARKING SCHEME

SECTION	SUBJECTIVE	LOGICAL REASONING
No. of Questions	35	15
Marks per Question	1	1

SYLLABUS

Section 1: Chemical Reactions and Equations, Acids, Bases and Salts, Metals and Non-Metals, Carbon and its Compounds, Periodic Classification of Elements, Life Processes, Reproduction in Organisms, Heredity and Evolution, Light-Reflection and Refraction, Human Eye and Colourful World, Electricity, Magnetic Effects of Electric Current, Sources of Energy, Our Environment.

Section 2: Series Completion, Analogy, Classification, Coding-Decoding, Blood Relations, Puzzle Test, Sequential Output Tracing, Direction Sense, Logical Venn Diagrams, Alphabet Test, Ranking Test, Mathematical Operations, Figure Matrix.

S H M E

SCHOLARS HUNT MATHEMATICS EXAM

SUBJECTIVE QUESTIONS

1. Four numbers are inserted between the numbers 4 and 39 such that an A.P. results. Find the biggest of these four numbers.
   a. 30   b. 31   **c. 32**   d. 33

2. An Oval shaped meeting table made of wood has its dimensions as shown in figure. Find the cost of polishing it at Rs.3.50 per sq.m. (Use π=3.14).

   a.   Rs. 310.75   b. **Rs. 308.91**
   c.   Rs. 250.25   d. Rs. 360.82
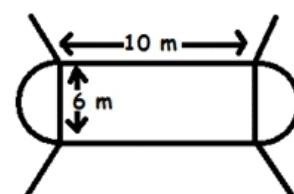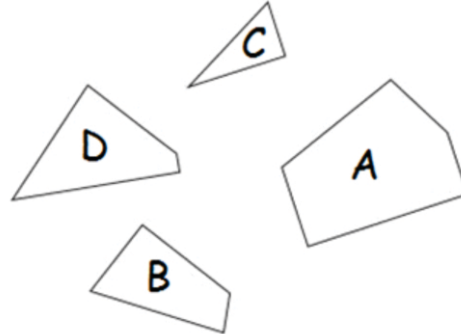
3. Three points A(1, -2), B(3, 4) and C(4, 7) will form:
a. **A straight line**   b.   An equilateral triangle
c. A right-angled triangle   d.   None of these

LOGICAL REASONING

4. Which three of the four pieces below can be fitted together to form a perfect square?

    a.   A, B, D
    b.   A, C, D
    c.   B, C, D
    d.   A, B, C

5. Complete the following series.
23, 46, 92, 184, 368,_____.
    a.   568
    b.   736
    c.   582
    d.   426

S H S E
SCHOLARS HUNT SCIENCE EXAM
SUBJECTIVE QUESTIONS

1. The product of fermentation is_____.
    a.   Formic acid   **b. Ethanol**   c. Methanol   d. Citric acid

2. A straight current carrying conductor is kept along the axis of circular loop carrying current. The force exerted by the straight conductor on the loop is:
    a.   Perpendicular to the plane of the loop
    b.   In the plane of the loop, away from the center
    c.   Zero
    d.   In the plane of the loop, towards the center

3. Use of high temperature for waste disposal is called_____.
    a.   Composting   b. Land filling
    c.   Recycling   **d. Incineration**

LOGICAL REASONING

4. How many pair of letters are there in the word 'BLANDISHMENT', which have as many letters between them as in the English alphabet series?
    a. 1   **b. 2**   c. 3   d. None

5. In a certain code language 'he is lazy' means 'vey iat uun' and 'it is donkey' means 'paa yok iat'. Then what is the code for 'is'?
    a. iat   b. vey   c. yok   d. uun