THE LAWRENCE SCHOOL, SANAWAR
Sample Paper for Entrance Examination for Class IX
ENGLISH SET 1

Time: 01Hour                                                                   Max. Marks: 100

Name( In capital letters)…………………………………………

Registration Number…………………………………………

MARKS OBTAINED

Note: The teacher on duty is requested to ensure that the child has written
correct and complete registration number

..............................
Name of the teacher on duty

..............................
Teacher’s Signature

Please attempt all the questions.
Q.1: Write a composition of 150 words on any ONE of the following:

Role of students in Nation Building

or

Childhood is the Best Part of Life

15 marks
Q.2: Comprehension passage: 15 marks

Read the following passage carefully and answer the questions that follow:

**HOW TENALI RAMA BECAME A JESTER**

In a South Indian village called Tenali there lived a clever Brahmin boy. His name was Rama. Once, a wandering sanyasi was impressed with the boy’s looks and clever ways. So he taught him a chant and told him, “If you go to the goddess Kali’s temple one night and recite these words three million times, she will appear before you with all her thousand faces and give you what you ask for— if you don’t, let her scare you.”

Rama waited for an auspicious day, went to the Kali temple outside his village and did as he was told. As he finished his three million chants, the goddess did appear before him with her thousand faces and two hands. When the boy looked at her horrific appearance, he wasn’t frightened. He fell into a fit of laughter. No one had ever dared to laugh in the presence of this fearsome goddess. Offended, she asked him, “You little scallywag, why are you laughing at me?”

He answered, “O mother, we mortals have enough trouble wiping our noses when we catch a cold, though we have two hands and only one nose. If you, with your thousand faces, should catch a cold, how old you manage with just two hands for all those thousand running noses?’

The goddess was furious. She said, “Because you laughed at me, you’ll make a living only by laughter. You’ll be a ‘vikatakavi’, a jester.” “Oh, a vi-ka-ta-ka-vi! That’s terrific! It’s a palindrome. It read vi-ka-ta-ka-vi whether you read it from right to left or from left to right”, replied Rama.

The goddess was pleased by Rama’s cleverness that saw a joke even in a curse. She at once relented and said, “You’ll be a vikatakavi, but you will be jester to a king.” And she vanished. Soon after that, Tenali Rama began to make a living as jester to the King of Vijayanagar.

1. Why did the sanyasi teach Tenali the chant?
   ____________________________________________________________
   ____________________________________________________________

2. What was Tenali Rama advised to do with the chant?
   ____________________________________________________________
   ____________________________________________________________

3. Why did Tenali Rama laugh at the goddess?
   ____________________________________________________________
   ____________________________________________________________
4. What was the curse that the goddess gave Tenali Rama?
_______________________________________________________________________________________
_______________________________________________________________________________________

5. What ‘concession’ did she make regarding the curse and why?
_______________________________________________________________________________________
_______________________________________________________________________________________

Q3. Rewrite the following sentences to make their meaning clear.  

1. study/ is/ chemicals/ chemistry/ the/ of
   ___________________________________________________________________________

2. basic/ elements/ hundred/ gold/ there/ are/ such as/ oxygen and.
   ___________________________________________________________________________

3. chemicals/ around/ made/ are/ of/ you/ everything
   ___________________________________________________________________________

4. combined/ although/ with/ elements/ exist/ on/ own/ usually/ they are// can/ their/ they/ other
   ___________________________________________________________________________

5. studying/ chemists/ their/ by/ reactions/ substances/ new/ make
   ___________________________________________________________________________
Q4. The following passage has not been edited. There is one error in each line. Underline each error and write your correction in the space provided.

A telescope uses lenses two bend light rays to firm images of faraway objects. They are bring close and you can sea them as if they were really near you. A telescope cuts distant, that is what it is funny to watch the moon through it. But some objects are too small that you can’t sea them clearly from naked eyes. In such a situation a magnifying glass prove a very helpful device.

Q6. Change the following into Direct Speech.

1. He remarked what a lovely garden it was.

______________________________________________________________________

2. She exclaimed bitterly that she had torn her frock.

______________________________________________________________________

3. He asked if he should open the window.

______________________________________________________________________
4. He said he was coming to see me.

5. He said he had to go at once.

Q7. In the following sentences, fill in the gaps with one of the following determiners. 10 marks

MUCH, MANY

1. It seems to me that we’ve had ________ assignments in English this term.

2. How _________ material can we be expected to read in one week?

3. _________ of the books you asked us to read are not in the library.

4. I’ve called _________ of my colleagues over for dinner.

5. _________ of the anger you experience can be attributed to being overworked.

Q8. Change the following into Reported Speech using the verb given. 10 marks

1. Go away! (he told)

2. Pick it up. (he ordered)

3. Eat it all. (tell)

4. Sit down! (we asked)
5. Hold this. (she asked)

Q9. Choose the best word from the options given to complete the following passage.

The Rozas (a) are/is (b) an/a important ritual for Muslims but (c) their/there social aspect is equally significant. Fasting for an entire month is a way of discovering what (d) the/a poor and hungry go through. Hence the stress on (e) giving/to give alms and sharing (f) ones/one’s food and wealth with them. The (g) principle/principal of austerity and sharing that are basic to Islam (h) came/come up at a time when Arabia (i) was/were full of tribes in a (j) disparity/disparities of wealth and privilege.

Q10. Use the correct word in the blank.

1. All the children have gone to the _______________. (fair/fare)
2. His ___________ was so low that nothing could cheer him up. (moral/morale)
3. Please be ____________, the show is about to begin. (quiet/quite)
4. Hurry up the ship is about to ____________. (sale/sail)
5. The milk has come from their __________ farm. (diary/dairy)
THE LAWRENCE SCHOOL, SANAWAR

Hindi Syllabus of Class IX for Entrance Examination

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Sandhi &amp; Vichchhed (Swar Sandhi)</th>
<th>Gender</th>
<th>Number</th>
<th>Antonyms</th>
<th>Synonyms</th>
<th>One Word Substitution</th>
<th>Meaning of Idioms</th>
<th>Making sentences</th>
<th>Correcting sentences</th>
<th>Essay Writing</th>
<th>Unseen passage</th>
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THE LAWRENCE SCHOOL,
SANAWAR

Sample Paper (Entrance Examination for Class IX)

SUBJECT- HINDI

Time: 01 Hour
Max. Marks: 100

निदेश : इस प्रश्नपत्र में कुल 12 प्रश्न हैं। सभी प्रश्नों के उत्तर देना अनिवार्य है।

Instructions: This question paper has only 12 questions. All questions are compulsory.

1- l l/k d hft , % 5
j l e $ v o r k j ¾ --------------] f g e $ v k y ; ¾ --------------] u j $ b a z ¾ ------

/l e Z $ v k e k ¾ -------------, सती + ईश = ------------------------A

2- l l/k fo PN sa d hft , % 5
N k=l k h l --------------. महेशक------------------. महाशय --------------
i j k d k j --------------] i & d ------------------------A

3- नीचे लिखे शब्दों के लिंग बदलिए : 10

शिष्य --------------] n o --------------] n k l --------------. भवदीय --------------] u k d j --------------
c d j h --------------] i k d k --------------] i k h --------------] c a j --------------] p y k --------------

4- नीचे लिखे शब्दों के वचन बदलिए : 10

x k; --------------] d k k --------------] fr fo k --------------] L=h --------------] y r k --------------

# i; k --------------] d fo --------------] e k y k --------------] i & r d --------------] l [ kh --------------

5- नीचे लिखे शब्दों के विलोम शब्द लिखिए : 10
6- नीचे लिखे शब्दों के दो—दो पर्यायवाची शक्ति f y [ ka% 

7- u h p s f y [ k s e g k o j k a d s v F k f y [ k a% 

8- नीचे लिखे अनेक शब्दों के लिए एक शब्द लिखें : 

9- नीचे लिखे वाक्यों को शुद्ध कीजिए :
10- किसी एक विषय पर लगभग 100 शब्दों का एक निबंध लिखिए :

1- e$k fon+ky;  2- cky fnol  3- fdl h; kdkko.kā

11- निम्नलिखित गद्यांश को पढ़कर उसके नीचे लिखे प्रश्नों के उत्तर दीजिए :

1 Ppkfe= , d [kt klo की तरह होता है। यदि हमने अपने जीवन में एक भी
1 Ppkfe= ikfy; krunekukskcl d njikfy; kā l Ppkfe= ikikukl i y
dke ugha gksrkA l Ppkfe= oghgSt ksfoifR d sl e; d l evkr k gā , kfe=
LokkFkZughagkskā ml svk i d h/kul EifR lsd kōZeZk ughagkskā og vius
fe= dhdet hosh dsfd l h ds l keusmYy $k ughadjr kcfYd ml dsxk kā
d k c[ kū d j rk gā

1- सच्चे मित्र की क्या विशेषता है |
2. लोक द्वारा उपयुक्त गद्यांश का उचित शीर्षक दीजिए।

3. उपयुक्त गद्यांश का उचित शीर्षक दीजिए।

12. नीचे दिए चित्र को देखकर ८० से १०० शब्दों में उसका वर्णन करें।
Syllabus for Entrance Examination to Class IX

Food: Crop production; Microorganism
Materials: Materials of daily life; Different kinds of materials and their reactions; How things change; How things react with one another
The world of living: Why conserve; The cell – plant and animal cells; How babies are formed
Moving things, people and ideas: Idea of force; Friction; Pressure; Sound
How things work: Electric current and circuits; Conduction of electricity in water; Chemical effects of current; Electroplating
Natural Phenomena: Rain, thunder and lightning; Light – reflection and refraction; Dispersion; Eye – its structure; Defects in vision and their causes; Night sky; Earthquakes
Natural Resources: Man’s intervention in phenomena of nature; Pollution of air and water

Sample Paper for Entrance Examination to Class IX

General Science

Time: 01 hours Max. Marks: 100

General Instructions:
1. All questions are compulsory.
1. Questions are to be answered on the question paper itself (on the space provided against each question).

Q1. **Fill in the blanks-**

1. After ploughing the soil it is __________________________ to prevent soil erosion.
2. Haber’s process involves combining nitrogen and hydrogen to yield __________________________.
3. Bacteria are used to make medicines called __________________________.
4. Viruses can __________________________ only when inside a host cell.
5. __________________________ is also called artificial silk.
6. An __________________________ is a mineral from which a metal can be extracted.
7. In a reactivity series, __________________________ are arranged in decreasing order of their reactivity.
8. The __________________________ of gold in jewellery is measured in terms of carat.
9. Metal food containers have a coating of __________________________.
10. __________________________ is the residue left behind after destructive distillation of coal.
11. In a soda-acid fire extinguisher, __________________________ is liberated to extinguish fire.
12. __________________________ zone is the zone of no combustion in a candle flame.
13. Lignite has about __________________________ percent of carbon in it.
14. The part of the cell that controls all its activities is called __________________________.
15. A fuel must be heated to its __________________________ temperature to catch fire.
16. Organisms with both male and female gametes are called __________________________.
17. The nucleus and the cytoplasm together make up the __________________________.
18. Sound is produced when a body __________________________.
19. Reflection of sound by a hill or a large cliff some distance away is called an __________________.
20. A soft board will __________________________ most of the sound falling on it.
21. During a storm, __________________________ get charged causing lightning and thunder.
22. We use a __________________________ to detect and measure charges.
23. The amount of light entering the eye is controlled by the __________________________.
24. Deficiency of __________________________ can lead to night-blindness.
25. The study of the universe is known as __________________________.

Q2. **Give one word answers :**

1. The process of conversion of proteins into ammonia. __________________________
2. Harmful substances present in air. __________________________
3. The galaxy that we live in. __________________________

4. The bacterium that turns milk into curd.
5. The gas that is responsible for global warming.
6. Name given to the ratio of speed of light in vacuum to that in a medium.
7. The main source of plastic.
8. An image type that cannot be obtained on a screen.
9. Name the plastic whose sheets are used for packing liquids.
10. Combination of metals with other metals or non-metals in their molten state.
11. Bending of light while passing from one medium to another.
12. The slow process of conversion of wood into coal.
13. Instrument that uses ultrasonic rays to find the depth of sea.
14. A force that acts from a distance and affects only certain metals.
15. The force that tends to slow down an object moving on a table.
16. Which fuel is used in jet aeroplanes?
17. The process by which new cells are formed.
18. The jelly like substance present in cells.
19. Species of all plants together.
20. Practice of renewing a forest by planting small trees or seedlings.
21. A cell breaking into two more cells after growing to a critical size.
22. Name the cell organelles that help to get energy from food.
23. The largest known single cell.
24. What are spherical shaped bacteria called?
25. The fusion product of sperm and ovum.

Q3. Put Tick (✔) mark on the most appropriate choice in the bracket: (25 \cdot 1 = 25)

1. Which nutrient is compost rich in? (Organic nutrients/nitrogen/phosphorus/potassium)
2. Which of these is not a fungal disease of plants? (wilt/rust/smut/blight)
3. Which one is neither living nor non-living? (fungi/bacteria/viruses/protozoa)
4. Which of these is made up of a cell without nucleus? (bacteria/viruses/fungi/protozoa)
5. Amoeba is a form of: (bacteria/virus/fungi/protozoa)
6. Dodo is a: (rare species/extinct species/endangered species/vulnerable species)
7. Which of these is a thermosetting plastic? (polystyrene/bakelite/polythene/polyvinyl chloride)
8. Splitting of white light into its constituent colours: (refraction/dispersion/deviation/displacement)
9. The Pole Star is in the constellation of: (Ursa Major/Ursa Minor/Orion/Scorpius)
10. Which of these is the most reactive metal? (magnesium/platinum/gold/sodium)
11. Which one of the following alloys is light and strong? (brass/stainless steel/duralium/bronze)
12. Which metal cannot displace hydrogen from a dilute acid? (Iron/Zinc/Silver/Calcium)
13. On destructive distillation, bituminous coal yields: (water gas/coal gas/producer gas/none of these)
14. Which of these is a multi-cellular organism? (Paramecium/Amoeba/Bacteria/Mushroom)
15. Which one is a non-polluting fuel for vehicles? (petrol/diesel/kerosene/CNG)
16. The hottest planet in the solar system is: (Mars/Sun/Mercury/Venus)
17. The large number of rocks between Mars and Jupiter are: (asteroids/comets/meteors/meteorites)
18. In which of these media sound travels fastest? (Air/Water/Steel/Vacuum)
19. The nature of a mirror that always produces small and erect image: (Plane/concave/convex/none)
20. Male reproductive system in humans is: (Sperm/Ovum/Testes/Ovaries)
21. Which one is a hermaphrodite animal? (Elephant/Cow/Dog/Earthworm)
22. In humans, fertilization occurs in: (oviduct/uterus/ovary/vagina)
23. The egg of a hen is: (cell/tissue/organ/organ system)
24. In destructive distillation, coal is heated strongly to: (5000 °C/1000 °C/100 °C/10,000 °C)
25. Which of these is not a cereal?: (maize/gram/wheat/rice)

Q4. State whether the following statements are True [T] or False [F]:

1. Unwanted plants that grow along with crops are called horticulture. [ ]
2. Separation of grains from the chaff with help of wind is called threshing. [ ]
3. Galvanized iron starts rusting if there is a scratch on the zinc layer. [ ]
4. Bacteriophage is a many sided virus that has a tail or stalk. [ ]
5. Unicellular organisms perform all the activities necessary for life in a single cell. [ ]
6. Some bacteria can make their own food. [ ]
7. A virus can reproduce on its own. [ ]
8. Synthetic fibres are man made fibres made from polymers. [ ]
9. In cataract, the lens of the eye becomes opaque. [ ]
10. Stars are made up of rocks. [ ]
11. Metals generally have a low specific gravity. [ ]
12. Metalloids have some properties of metals and some properties of non-metals. [ ]
13. Noble metals are very reactive and do not occur in free state. [ ]
14. The main components of biogas are methane and hydrogen. [ ]
15. Calorific value is the amount of heat liberated when one gram of fuel is burnt. [ ]
16. Water gas is a mixture of carbon dioxide and hydrogen. [ ]
17. Number of oscillations per second is called amplitude. [ ]
18. Electrostatic force is exerted by charged objects only. [ ]
19. The Loudness of sound depends on the time period of the vibration. [ ]
20. Stars are made up of rocks. [ ]
20. A thin spherical lens has bigger focal length than a thick spherical lens. [ ]
21. Other than sun, the star nearest to us is Proxima centauri. [ ]
22. Endangered animals no longer exist on earth. [ ]

23. The waves generated by an earthquake are called the seismic waves. [ ]
24. Jupiter is the second largest planet. [ ]
25. Pituitary gland is also known as master gland. [ ]

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Number System

(i) **Rational Numbers:**
Properties of rational numbers. (including identities). Using general form of expression to describe properties. Consolidation of operations on rational numbers. Representation of rational numbers on the number line. Between any two rational numbers there lies another rational number. (Making children see that if we take two rational numbers then unlike for whole numbers, in this case you can keep finding more and more numbers that lie between them.) Word problem (higher logic, two operations, including ideas like area)

(ii) **Powers**
Integers as exponents. Laws of exponents with integral powers.

(iii) **Squares, Square roots, Cubes, Cube roots.**
Square and Square roots, Square roots using factor method and division method for numbers containing (a) no more than total 4 digits and (b) no more than 2 decimal places. Cubes and cubes roots (only factor method for numbers containing at most 3 digits) Estimating square roots and cube roots. Learning the process of moving nearer to the required number.

(iv) **Playing with numbers**
Writing and understanding a 2 and 3 digit number in generalized form (100a + 10b + c, where a, b, c can be only digit 0-9) and engaging with various puzzles concerning this. (Like finding the missing numerals represented by alphabets in sums involving any of the four operations.) Children to solve and create problems and puzzles. Number puzzles and games, Deducing the divisibility test rules of 2, 3, 5, 9, 10 for a two or three-digit number expressed in the general form.

Algebra

(i) **Algebraic Expressions**
Multiplication and division of algebraic exp.(Coefficient should be integers), Some common errors Identities, Factorisation (simple cases only) as examples the following types. Solving linear equations in one variable in contextual problems involving multiplication and division (word problems) (avoid complex coefficient in the equations)

Ratio and Proportion

Slightly advanced problems involving applications on percentages, profit & loss, overhead expenses, Discount, tax. Difference between simple and compound interest (compounded yearly up to 3 years or half-yearly up to 3 steps only), Arriving at the formula for compound interest through patterns and using it for simple problems. Direct variation – Simple and direct word problems Inverse variation – Simple and direct word problems, Time & work problems – Simple and direct word problems

Geometry

(i) **Understanding shapes:**
Properties of quadrilaterals – Sum of angles of a quadrilateral is equal to 360° (By verification) • Properties of parallelogram (By verification) Opposite sides of a parallelogram are equal, ) Opposite angles of a parallelogram are equal, Diagonals of a parallelogram bisect each other. Diagonals of a rectangle are equal and bisect each other. Diagonals of a rhombus bisect each other at right angles. Diagonals of a square are equal and bisect each other at right angles.

(ii) **Representing 3-D in 2-D**
Identify and Match pictures with objects [more complicated e.g. nested, joint 2-D and 3-D shapes (not more than 2)]. Drawing 2-D representation of 3-D objects (Continued and extended) Counting vertices, edges & faces & verifying Euler’s relation for 3-D figures with flat faces (cubes, cuboids, tetrahedrons, prisms and pyramids)

(iii) **Construction:**
Construction of Quadrilaterals: Given four sides and one diagonal, Three sides and two diagonals Three sides and two included angles Two adjacent sides and three angles

Mensuration
Area of a trapezium and a polygon. Concept of volume, measurement of volume using a basic unit, volume of a cube, cuboid and cylinder, Volume and capacity (measurement of capacity), Surface area of a cube, cuboid, cylinder.

**Data handling**

Reading bar-graphs, ungrouped data, arranging it into groups, representation of grouped data through bar-graphs, constructing and interpreting bar-graphs. Simple Pie charts with reasonable data numbers, Consolidating and generalizing the notion of chance in events like tossing coins, dice etc. Relating it to chance in life events. Visual representation of frequency outcomes of repeated throws of the same kind of coins or dice. Throwing a large number of identical dice/coins together and aggregating the result of the throws to get large number of individual events. Observing the aggregating numbers over a large number of repeated events. Comparing with the data for a coin. Observing strings of throws, notion of randomness

**Introduction to graphs**

PRELIMINARIES:
Axes (Same units), Cartesian Plane, Plotting points for different kind of situations (perimeter vs length for squares, area as a function of side of a square, plotting of multiples of different numbers, simple interest vs number of years etc.) Reading off from the graphs Reading of linear graphs Reading of distance vs time graph.

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THE LAWRENCE SCHOOL
SANAWAR

Sample Question Paper for Entrance Examination
Class IX

MATHEMATICS

Time : 01 Hour Max. Marks: 100

General Instructions: -

☐ Answer all the questions on this sheet only.
☐ No separate sheet will be provided for rough work.
Section A (1 mark each)

1. Solve the following; (with short solutions)

a) Find $\sqrt{121} =$ ---------------------

b) A parallelogram in which a pair of adjacent sides are equal is called a ------------------.

c) Sum of opposite angles of a cyclic quadrilateral is ------------------------------.

d) Simplify $17^{3/2} \div 17^{1/2} =$ -------------------------------

e) Divide $28x^3 - 21x^2$ by $7x.$-----------------------------------------------

f) In a circle, perpendicular from the centre to a chord ------------------ the chord.

g) Factorize: $x^3 + y^3 =$ ------------------------------

h) Complete the Formulae; Amount = -----------------------, C.I = ------------------.

i) Find the smallest number by which 32 should be multiplied to make it a perfect cube.

j) Find the measure of $x$ and $y$ in each of the following where $O$ is the centre of the circles:

Section B (5 marks each)

Q. 2. In $\triangle ABC$, $PQ \parallel XY \parallel BC$. If $AX = 5$ cm, $XB = 3$ cm and $AY = 5.5$ cm find $YC$.  

Q. 3. Find the product

(a) \((x + 4) (x - 10)\)

(b) Expand using the identity \((x + 2y - 3z)^2\)

Q. 4 Divide and check whether \((x - 6)\) is a factor of \(x^2 - 12x + 35\)
Q. 5. Solve for \( x \): \[
\frac{9x - 7}{3x + 5} = \frac{3x - 4}{x + 6}
\]

Q. 6. Find the amount of Rs 6000 lent at 5 % per annum for 2 years if the interest is compounded annually.

Q. 7. Find the value of \( 64x^3 + 27y^3 \) if \( 4x + 3y = 5 \) and \( xy = 1 \)
Q. 8. What price should a Sita mark on a sari which costs her Rs 2200 so as to gain 26% after allowing a discount of 12%?

Q. 9. The sum of ages of Gagan and Jessica is 31 years. After 10 years the ratio of their ages will be 8 : 9. Find their present ages.

Section C (10 Marks each)

10. Simplify using identities: \((7x + 2y)^3 - (7x - 2y)^3\).
Q. 11. Factorize the following:

(i) \( x^2 - 12x + 35 \)

(ii) \( a^2 + 9b^2 + 4c^2 + 6ab + 12bc + 4ca \)

(iii) \( 125a^3 - b^3 \)

Q. 12. Draw a line segment of 10 cm in the ratio 3: 2. (without steps of construction)
Q. 13. A man walks around a circular park 5 times daily. If the diameter of the park is 700m, how much distance does the man walk daily?

Q. 14. A cylindrical tin is 30 cm high and has a base radius of 2.8 cm. How much powder can it hold?