



ENTRANCE TEST

[For Class IXth Students]

IMPORTANT INSTRUCTIONS

1. This Booklet contains 13 pages including instruction page.
2. Do not open this Test Booklet until you are asked to do so.
3. The test is of **1/2 Hours** duration for **Each Subject**.
4. There are four parts in the question paper consisting of **Mathematics, Science, English & Hindi**.
5. No candidate is allowed to carry any textual material, printed or written, bits of papers, pager, mobile phone, any electronic device, etc. except the Admit Card inside the examination room / hall.
6. On completion of the test, the candidate must hand over this Test Booklet to the Invigilator on duty in the Room / Hall.

Name of the Student : _____

Father's Name : _____

Date of Entrance Test :

Report Status :

Subject	Max. Marks	Marks Obtained
Mathematics	25	
Science	25	
English	25	
Hindi	25	
Total	100	

Admission Granted : Yes No

Authorised Signature

Subject : MATHEMATICS

Time : ½ Hr

M. Marks :25

Q.1 Choose the correct answer.

[10 × 1 = 10]

- (i) The number of edges in a square pyramid are
(a) 12 (b) 9 (c) 8 (d) 10 ()
- (ii) $x^2 + 3x + 5y$ is the example of
(a) monomial (b) binomial (c) Trinomial (d) polynomial
()
- (iii) The figure having all the angles as right angles.
(a) Square (b) Rectangle (c) Triangle (d) both a and b
()
- (iv) $a^2 - b^2$ can be written as
(a) $(a - b)(a - b)$ (b) $(a - b)(a + b)$ (c) $(a + b)(a + b)$ (d) $(ab)(a - b)$
()
- (v) Whole surface area of a cylinder is
(a) $2\pi rh$ (b) $2\pi r(h+r)$ (c) $\frac{2\pi r^2}{4}$ (d) none of these
()
- (vi) Which statement is true
(a) $S.I \times 100 = P \times R \times T$ (b) $S.I = P \times R \times T$
(c) $S.I \times P = \frac{R \times T}{100}$ (d) $S.I. = \frac{P \times R \times T}{1000}$ ()
- (vii) The figure which is an equiangular but not an equilateral one is
(a) Square (b) Rhombus (c) Rectangle (d) Kite
()
- (viii) The point on x-axis to the left of the origin represent.
(a) Positive numbers (b) Negative numbers
(c) Rational numbers (d) Natural numbers ()
- (ix) The flat surface of a polyhedron is
(a) Edge (b) Polygon (c) vertex (d) none of these
()
- (x) Square of 23 is
(a) 259 (b) 529 (c) 925 (d) 952 ()

Q.2 Fill in the blanks.

[5 × 1 = 5]

- (i) x axis is known as _____. (abscissa / ordinate)
- (ii) The diagonals of rhombus bisect each other at _____. (90° angle / 180° angle)
- (iii) Volume of cube is _____ (side 3, side 2)
- (iv) Square has _____ line of symmetry. (Four / No)
- (v) $(a + b)^2$ is _____ ($a^2 + 2ab + b^2$ / $a^2 - 2ab + b^2$)

- Q.3** Write True / False. **[5 × 1 = 5]**
- (i) If 3 sides of a quadrilateral are equal, it must be a parallelogram. ()
 - (ii) The bottom left part is third quadrant. ()
 - (iii) Polygon is a closed figure with straight line. ()
 - (iv) Perimeter of an equilateral triangle is 3×side. ()
 - (v) Sum of adjacent angle is always a straight angle. ()

- Q.4** If one of the angles of a rhombus is 60° what are the measures of the rest of the angles. **[1 × 2 = 2]**

- Q.5** Simplify. **[3 × 1 = 3]**
- (i) $4a^2 - 4b^2$

(ii) $(3a + b)(2a + b)$

(iii) $\frac{14a}{3} = 0.28$

Subject : SCIENCE

Time : ½ Hr

M. Marks :25

Q.1 Choose the correct option :

[5 × ½ = 2½]

- (i) Which can be beaten in to thin sheets ?
(a) zinc (b) phosphorus (c) sulphur (d) oxygen ()
- (ii) Sound can travel through
(a) gases only (b) solids only
(c) liquids only (d) solids, liquids and gases ()
- (iii) Which of the following is not a green house gas ?
(a) Carbon dioxide (b) sulphur dioxide
(c) methane (d) nitrogen ()
- (iv) The right meal for adolescents consists of
(a) chip, noodles, coke
(b) chapati, dal, vegetables
(c) rice, noodles, burger
(d) vegetables, cutlets, chips and lemon juice ()
- (v) Which of the following is the exhaustible natural resource.
(a) air (b) water (c) sunlight (d) coal ()

Q.2 Fill in the blanks :

[5 × ½ = 2½]

- (i) Least polluting fuel for vehicle is
- (ii) Metals are good conductors of heat and
- (iii) Chlorea is caused by
- (iv) Some kind of plants grown and cultivated on a large scale at a place is called
- (v) is separated from cytoplasm by a nuclear membrane.

Q.3 True or False :

[5 × ½ = 2½]

- (i) Colured bodies called plastids are found in animal cell only. ()
- (ii) Testosterone is the male hormone. ()
- (iii) Force per unit area is called pressure. ()
- (iv) The objects acquire small charge are called charge objects. ()
- (v) Rayon is a natural fibre. ()

Q.4 Match up's :

[5 × ½ = 2½]

Column A

- (i) Ovary
- (ii) Cathode
- (iii) Metal
- (iv) Nucleus
- (v) Earthquake

Column B

- Brain of the cell
- seismograph
- ovum
- ductile
- negatively charged rod

Q.5 Give answers in short :

[4 × 1½ = 6]

- (i) What is the difference between metals and non metals.

- (ii) What is the difference between male gamete and female gamete.

- (iii) What is the difference between contact and non-contact force.

- (iv) What is the difference between stars and planets.

Q.6 Give answers in brief :

[2 × 3 = 6]

(i) Explain sex determination in human with diagram.

(ii) Explain different zones of candle flame with diagram.

Q.7 Draw the diagram of male or female reproductive system.

[1 × 3 = 3]

Subject : ENGLISH

Time : ½ Hr

M. Marks :25

Q.1 Complete the passage using the correct form of the words given in brackets. [8 × ½ = 4]

Nearly 50 percent of class X student (a) (fail) in Hindi in the Rajasthan Secondary School based examinations this year even though Hindi (b) (be) the language they speak as their mother tongue. The (c) (fail) rate is (d) (high) in government schools and colleges while private school children have performed (e) (good). The government (f) (take) serious note of the (g) (result) this year and (h) (hope) to better the situation.

Q.2 Rewrite the following sentences in their passive voice : [4 × 1 = 4]

(i) Do this work now.

(ii) She gave me a gift.

(iii) Somebody has broken the vase.

(iv) The man cut down the tree.

Q.3 Fill in the gaps with appropriate determiners (much, may, few, a little, most) [4 × 1 = 4]

(i) experts say you should fertilize your lawn in the summer.

(ii) I didn't seem to do my lawngood.

(iii) They say knowledge is a bad thing.

(iv) people went to see him.

Q.4 Give opposites : [6 × ½ = 3]

(i) honour

(ii) truth

(iii) polite

(iv) visible

(v) responsible

(vi) attract

Q.5 Write a notice in atleast 50 words, informing the students about the interhouse rangoli competition. Sign as Jay / Jaya. [5]

Ans.

Q.6 Write a letter to your friend advising him to take part in atheletics along with studies as it is a healthy habit. (about 100 words). [5]

Ans.

Subject : HINDI

Time : ½ Hr

M. Marks :25

प्र.1 निम्नलिखित प्रश्नों के उत्तर का सही विकल्प कोष्ठक में लिखिए -

[10 × 1 =10]

- (i) 'सचिवालय' शब्द का सही संधि विच्छेद है -
(अ) सचि + वालय (ब) सचिव + आलय (स) सची + आलय (द) सचिव + लय
()
- (ii) महा + उत्सव की उचित संधि हैं -
(अ) महात्सव (ब) महौत्सव (स) महत्सव (द) महोत्सव
()
- (iii) 'देश भक्ति' शब्द का समास विग्रह है।
(अ) देश और भक्ति (ब) देश के लिए भक्ति (स) देश की भक्ति (द) देश में भक्ति
()
- (iv) 'देवता' शब्द के पर्यायवाची हैं -
(अ) देव, सुर (ब) असुर, राक्षस (स) कष्ट, पीड़ा (द) रावण, इन्द्र
()
- (v) 'अनुकूल' शब्द का विलोम है -
(अ) प्रतिकूल (ब) सानुकूल (स) अपनापन (द) परायापन
()
- (vi) 'जिसके आने की तिथि न हो' उसे कहते हैं -
(अ) मेजवान (ब) रिश्तेदार (स) अतिथि (द) संबंधी
()
- (vii) 'काल' शब्द के अनेकार्थी शब्द हैं -
(अ) समय, मृत्यु (ब) समय, दिशा (स) जाति, धर्म (द) आज, कल
()
- (viii) 'पढ़ाई' शब्द में उचित प्रत्यय है।
(अ) आई (ब) ई (स) अई (द) उई ()
- (ix) 'अपयश' शब्द में उपसर्ग है -
(अ) अप (ब) यश (स) आ (द) ई ()
- (x) 'राम धीरे - धीरे चलता है' में क्रिया विशेषण है।
(अ) राम (ब) धीरे-धीरे (स) चलना (द) है ()

- प्र.2 सही के आगे (✓) तथा गलत के आगे (×) का निशान लगाइये। [5 × ½ = 2½]
- (i) महात्मा शब्द में कर्मधारय समास है। ()
- (ii) हस्तलिखित शब्द में तत्पुरुष समास है। ()
- (iii) घोड़ा तेज दौड़ता है में सर्वनाम का प्रयोग हुआ है। ()
- (iv) लाभ का विलोम फायदा होता है। ()
- (v) आँख का पर्याय नेत्र होता है। ()

- प्र.3 निम्नलिखित वाक्यों के सही उत्तर पर (✓) का चिह्न लगाइए - [5 × ½ = 2½]
- (i) 'कुछ वस्तुएँ मेरे लिए छोड़ देना' में रेखांकित शब्द है। (गुणवाचक विशेषण / परिमाण वाचक विशेषण)
- (ii) नदी शब्द का पर्यायवाची है। (सरिता / जल)
- (iii) मोहन सुन्दर लिखता है में रेखांकित शब्द है - (विशेषण / क्रिया)
- (iv) 'शक्तिशाली' शब्द का विलोम है - (कमजोर / ताकतवर)
- (v) 'मुँह में पानी आना' मुहावरे का अर्थ है - (ललचाना / पानी पीना)

- प्र.4 संधि की परिभाषा उदाहरण सहित लिखिए। [2]

- प्र.5(1) परिणाम शब्द का वर्ण विच्छेद कीजिए। [1]

- (2) विराम चिह्न लगाकर वाक्य पुनः लिखिए। [1]

सत्य करुणा क्षमा उदारता आदि भारतीय संस्कृति की पहचान है।

SEAL