



ENTRANCE TEST

[For Class Xth 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 : $\frac{1}{2}$ Hr

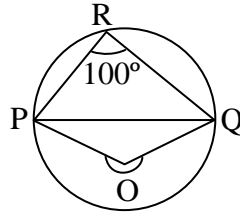
M. Marks :25

Q.1 Choose the correct option :-

[10 × 1 = 10]

- (i) Which of the following is a form of linear equation in two variables.
(a) $ax + b = 0$ (b) $ax^2 + bx = 0$ (c) $b = 0$ (d) none of these ()
- (ii) Median of 15, 35, 18, 26, 19, 25, 29, 20, 27 is :
(a) 25 (b) 26 (c) 18 (d) 19 ()
- (iii) Graph of equation $x + 5y = -3$ is :
(a) linear graph (b) Curve (c) Parabola (d) none of these ()
- (iv) Two adjacent angles of a Π gm are $(3x - 40^\circ)$ and $(2x + 20^\circ)$. The values of all the angles are.
(a) 90, 90, 90, 90 (b) 80, 100, 80, 100
(c) 40, 50, 50, 40 (d) none of these ()
- (v) The probability of getting odd number in the throw of dice.
(a) $\frac{1}{2}$ (b) $\frac{1}{3}$ (c) $\frac{1}{4}$ (d) none of these ()
- (vi) The curved surface area of sphere is :
(a) $4\pi r^2$ (b) $2\pi r^2$ (c) $3\pi r^2$ (d) none of these ()
- (vii) Median of nos : 1, 2, 3, 4, 5, 6, 7 is :
(a) 3 (b) 4 (c) 5 (d) 7 ()
- (viii) The mode of data 34, 43, 48, 43, x, 48, 60, 64 is 43, then what is the value of $x + 2$?
(a) 43 (b) 45 (c) 40 (d) none of these ()
- (ix) $x = 5, y = -2$ is a solution of the linear equation -
(a) $2x + y = 9$ (b) $2x - y = 12$ (c) $x + 3y = 1$ (d) $x + 3y = 0$ ()

- (x) In the given figure $\angle PRQ = 100^\circ$ and P, Q & R are points on the circle with centre O. $\angle OPQ$ is



- (a) 15° (b) 10° (c) 20° (d) none of these ()

Q.2 Fill in the blanks : **[5 × 1 = 5]**

- (i) Angle in the semicircle is a _____ (right angle / acute angle)
- (ii) _____ is the equation of y-axis ($x = 0, y = 0$)
- (iii) _____ is a line which intersect a circle in two distinct points.
(Secant / tangent)
- (iv) Mode = _____ - 2 Mean (3 Median, Median)
- (v) The probability of getting tail is _____. $\left(\frac{1}{2}, \frac{1}{3}\right)$

Q.3 Write True or False. **[5 × 1 = 5]**

- (i) Every cyclic parallelogram is a rectangle. ()
- (ii) The equation $x = 5$ may be written as $1x + 0.y - 5 = 0$. ()
- (iii) There is one & only one circle passing through three non-collinear points. ()
- (iv) Any point on x-axis is of the form. $(x, 0)$ ()
- (v) 2 is a prime no. ()

Q.4 How many litres of milk can a hemispherical bowl of diameter 10.5 cm hold ?

[2]

Q.5 Simplify.

[2 × 1½ = 3]

(i) $\frac{1}{\sqrt{7}-\sqrt{3}}$

(ii) $\frac{2+\sqrt{3}}{5-\sqrt{6}}$

Subject : SCIENCE

Time : ½ Hr

M. Marks :25

General Instruction :-

- (i) All questions are compulsory.
- (ii) Q.1 to Q.6 carries 1½ mark each
- (iii) Q.7 carry 2 mark each.
- (iv) Q.8 carry 1 mark each.
- (v) Q.9 carry 2 mark each.
- (vi) Q.10 carry 3 mark each.

Q.1 Define valency by taking example of magnesium.

Ans.

Q.2 How does an Amoeba obtain its food.?

Ans.

Q.3 Name types of simple tissues.

Ans.

Q.4 State second law of motion.

Ans.

Q.5 Convert 22 gm of carbon dioxide in to mole.

Ans.

Q.6 Define Isobar.

Ans. _____

Q.7 Give reasons.

(a) Why does a block of plastic released under water come up to the surface of water ?

(b) Why chemical equation should be balanced ?

Q.8 Choose the correct option.

(a) Proton was discovered by -

- (i) J.J. Thomson (ii) Rutherford (iii) Chadwick (iv) Goldstein ()

(b) Which cell organelle is called suicidal bags of cell.-

- (i) Mitochondria (ii) Vacuole (iii) Plastids (iv) Lysosomes ()

(c) Which of the following compounds will undergo sublimation -

- (i) Common salt (ii) Camphor (iii) Sugar (iv) Sand ()

(d) Joule is the unit of -

- (i) Power (ii) Work (iii) Momentum (iv) Force ()

(e) The maximum displacement of a particle from its mean position. in wave motion is called -

- (i) Frequency (ii) Amplitude (iii) Phase (iv) Period ()

Q.9 Write down the formula of

(i) Aluminium oxide

(ii) Calcium hydroxide

Q.10 A body of mass 20 kg is lifted up by 10 meters. Calculate its potential energy if this body is allowed to fall, find its kinetic energy just before it touches the ground ($g = 10\text{m/s}^2$)

Subject : ENGLISH

Time : ½ Hr

M. Marks :25

Q.1 Complete the following sentences correctly by using the simple past or past perfect forms of the given verbs : **[4 × 1 = 4]**

(i) Wendy _____ (wake up) late, then she _____ (miss) her school bus.

(ii) When Feroze and Mehr _____ (meet) for the first time, they _____ (not like) each other but now they are married.

Q.2 Choose the appropriate option from the box to complete the given sentences : **[4 × 1 = 4]**

(i) I had left _____ (the / my) green shirt on the bed.

(ii) _____ (any / each) student of this class is a scholar badge holder.

(iii) I spent (the little / a little) _____ money I had.

(iv) _____ (little / a little) milk is required for a cup of tea.

Q.3 Fill in the blanks with appropriate prepositions. **[4 × 1 = 4]**

(i) We should abide _____ the constitution of our country.

(ii) Sugar is made _____ sugar beat and sugar cane.

(iii) All the furniture in my office is made _____ .

(iv) Raju is clever _____ painting.

Q.4 Unscramble the jumbled words and form into meaningful sentences : **[3 × 1 = 3]**

(i) feared by / Snakes are / in our / worshipped and / many / country.

(ii) morning / wake me up / she used to / in the

(iii) she always / with me / school / to / went

Subject : HINDI

Time : ½ Hr

M. Marks :25

- प्र.1 निम्नलिखित प्रश्नों के उत्तर का सही विकल्प कोष्ठक में लिखिए - [10 × 1 = 10]
- (i) 'बेगुनाह' शब्द में उचित उपसर्ग का प्रयोग हुआ है वह है -
(अ) बेगु (ब) बे (स) बेगुना (द) ना ()
- (ii) 'सामाजिक' शब्द में सही प्रत्यय है -
(अ) इक (ब) समाज (स) क (द) जिक ()
- (iii) सही नुक्ते वाला शब्द चुनकर लिखिए।
(अ) जरा (ब) ज़रा (स) ज़रा (द) जिरा ()
- (iv) सही अनुनासिक शब्द को छँटकर लिखिए।
(अ) महगॉ (ब) मँहगा (स) महँगा (द) महंगी ()
- (v) सब्जी में बहुत नमक है - रेखांकित वाक्य में कौनसा विशेषण है -
(अ) निश्चित परिमाण वाचक (ब) अनिश्चित संख्यावाचक
(स) निश्चित संख्या वाचक (द) अनिश्चित परिमाण वाचक ()
- (vi) 'कल में मुम्बई जाऊँगा' वाक्य में कौनसा काल है -
(अ) वर्तमान काल (ब) भूतकाल (स) भविष्यत् काल (द) कोई भी नहीं ()
- (vii) मोहन धीरे-धीरे चलता है - रेखांकित शब्द में कौन सा क्रिया विशेषण है -
(अ) रीतिवाचक (ब) स्थानवाचक (स) परिमाणवाचक (द) कालवाचक ()
- (viii) 'लोकोक्ति' शब्द का संधि-विच्छेद है -
(अ) लोक + उक्ति (ब) लोको + उक्ति
(स) लो + उक्ति (द) लो + कोक्ति ()
- (ix) 'विद्या + आलय' शब्द की संधि है -
(अ) विद्यालय (ब) विद्यआलय (स) विद्यलय (द) वि:आलय ()
- (x) 'प्रसाधन' शब्द का वर्ण विच्छेद कीजिए।

प्र.2 रिक्त स्थान की पूर्ति कीजिए -

[5 × 1 = 5]

- (i) पुलिस ने एक दुबले पतले आदमी को पकड़ा (उचित विराम चिह्न लगाकर वाक्य पुनः लिखिए।)

- (ii) 'निरन्तर' शब्द का पर्यायवाची _____ होता है। (अनवरत / अन्तर)
(iii) 'प्रत्यक्ष' का विलोम शब्द _____ होता है। (परोक्ष / सूक्ष्म)
(iv) हर बच्चा अपने माता-पिता की _____ होता है। (आँखों का तारा / आँखों का सूरज)
(v) पुलिस की मार खाकर अपराधी _____ लगा। (धूल चाटने / नाचने)

प्र.3 निम्नलिखित वाक्यों के सामने सही/गलत लिखिए - [4 × 1 = 4]

- (i) किसी चीज को जानने की इच्छा रखने वाला 'जिज्ञासु' कहलाता है। ()
(ii) 'दृग' शब्द का वर्ण विच्छेद दृ + ऋ + ग + अ होता है। ()
(iii) जो शब्द क्रिया की विशेषता बताते हैं उन्हें सर्वनाम कहते हैं। ()
(iv) विभिन्न मनोभावों को प्रकट करने वाले चिह्न को 'विस्मयादिबोधक' चिह्न कहते हैं। ()

प्र.4 निम्नलिखित विषयों में से किसी एक विषय पर एक अनुच्छेद लिखिए - [3]

- (i) विद्यार्थी और अनुशासन (ii) समय का महत्व

प्र.5 आपके मित्र को एक साहसिक कार्य के लिए राष्ट्रपति पुरस्कार मिला है। पत्र द्वारा आप उसे अपनी बधाई दीजिए।

[3]

SEAL