

Birla Vidyamandir, Nainital
SYLLABUS FOR ENTRANCE EXAMINATION
CLASS IV

ENGLISH

- a. Comprehending short passage, preferably from tales.
- b. Answering questions on personal details, e.g. name, parentage, etc.
- c. Answering questions framed to test awareness and understanding of the surroundings, e.g. recalling the names of flowers, animals or birds familiar with, names of days or months, etc.
- d. Completing simple sentences based on general observation, e.g. the sky is blue. The weather is cold.
- e. Correcting misspelt words.
- f. Reproducing six lines of a poem learnt.

MATHEMATICS

Multiplication Table; 4 Digit Numbers in Expanded Form; Roman Numerals up to 30 only; Concept of Equivalent Fraction; Addition of Fraction (e.g. $5/8 + 1/8$ or $3/4 + 1/4$); Subtraction of Fraction (e.g. $5/6 - 1/6$); Insert the symbol $<$, $=$ or $>$; Purchasing of articles from the given money; Some Geometrical Figures (e.g. Rectangle , Square and Circle); Observation of Pattern in Figures; To find the Number of Days between two given Dates in a particular calendar year; Insert the sign ($+$, $-$, \times , \div).

HINDI

1. याद की हुई कविता की दस पंक्तियाँ सुलेख में लिखनी ।
2. दिए गए शब्दों का वाक्यों में प्रयोग ।
3. अशुद्ध शब्दों के शुद्ध रूप ।
4. विलोम (विपरीतार्थक) शब्द ।
5. पर्यायवाची शब्द ।
6. स्वर-व्यंजनों के आधार पर शब्द रचना ।
7. निबंधात्मक दस वाक्य ।
8. अपठित गद्यांश ।

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SYLLABUS FOR ENTRANCE EXAMINATION
CLASS V

ENGLISH

- a. A short story for comprehension.
- b. A short composition on topics like My City, My School or Family etc.
- c. Questions based on antonyms e.g. (He is tall but I am)
- d. Correction misspelt words.
- e. Naming countries and capitals.
- f. Recalling the names of Sportspersons / leaders / favourite stories etc.
- g. Reproducing eight lines of a poem learnt.

MATHMATICS

Successor and predecessor of a Number; Addition of fraction; Subtraction of Fraction; Multiplication of Fraction; Addition 4 digit Numbers; Subtraction of 4 digit numbers; Multiplication of 4 digit numbers by one digit numbers; Multiplication of four or three digit number by two digit number; Division of three or four digit number by one or two digit number; Prime numbers; Test of divisibility (2, 3, 5, 9); LCM and HCF; Decimals; Addition and Subtraction of Decimals; The Metric System; Line Segment; common shapes(e.g. Rectangle, Triangle, Angle, Square, Circle).

HINDI

1. शब्दों का भाववाचक संज्ञा शब्दों में परिवर्तन।
2. अशुद्ध शब्दों के शुद्ध रूप।
3. विलोम (विपरीतार्थक) शब्द।
4. पर्यायवाची शब्द।
5. वचन परिवर्तन।
6. तत्सम—तद्भव शब्दों का परिवर्तन।
7. अशुद्ध वाक्यों के शुद्ध रूप।
8. निबंधात्मक दस पंक्तियाँ।
9. अपठित गद्यांश।

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SYLLABUS FOR ENTRANCE EXAMINATION
CLASS VI

ENGLISH

- a. A passage for comprehension.
- b. Short composition (of 10 lines) on subjective issues like, My Favourite Book, Best Friend, etc.
- c. Using adjectives (Antonyms etc.)
- d. Correcting misspelt or jumbled words.
- e. Vocabulary – names of clothing, linen, household articles, seasons etc.
- f. Correcting syntax errors, other minor grammatical slips in given sentences.
- g. Reproducing ten lines of a poem learnt.

MATHEMATICS

Number system; Addition of Numbers; Subtraction of Numbers; Multiplication of Numbers; Division of Numbers; GCF and LCM of Numbers; Addition, Subtraction, the order[{}](BODMAS); Addition, subtraction, Multiplication and Division of Decimal; The metric system; kind of Angles(Acute Obtuse, Right, Straight and Reflex Angle); Measuring an Angle; Complementary Angle; Supplementary Angle; Adjacent Angle; Vertically Opposite Angel; Unitary Method; Perimeter and Area of a Rectangle and Square.

HINDI

1. शब्दों का भाववाचक संज्ञा शब्दों में परिवर्तन ।
2. अशुद्ध शब्दों के शुद्ध रूप ।
3. विलोम (विपरीतार्थक) शब्द ।
4. पर्यायवाची शब्द ।
5. वचन परिवर्तन ।
6. तत्सम-तद्भव शब्दों का परिवर्तन ।
7. अशुद्ध वाक्यों के शुद्ध रूप ।
8. निबंधात्मक दस पंक्तियाँ ।
9. अपठित गद्यांश ।

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SYLLABUS FOR ENTRANCE EXAMINATION
CLASS VII

ENGLISH

- a. Passage for comprehension.
- b. Composition
- c. Letter of thanks, invitation etc.
- d. Use of collective nouns.
- e. Use of prepositions.
- f. Recalling words with the help of given clues in the sentences e.g. The season following spring is
- g. Picking up the correct words to complete the sentences.

MATHEMATICS

Arithmetic: LCM and HCF of numbers; the property that the product of two numbers is equal to the product of their HCF and LCM; Simplification of brackets.
Commercial Mathematics: Unitary method percentage; Profit and loss, simple interest.
Geometry: Parallel lines (Corresponding, alternate angle, Interior and Exterior angle);
Triangle (i) Sum of the three angles of a triangle is 180 degrees (ii) The exterior angle of a triangle is equal to the sum of their interior opposite angle.
Mensuration: Perimeter and Area of a rectangle and square; Volume of a cube and Cuboids.
Algebra: Addition and subtraction of algebraic expression (Two or three terms only).

HINDI

1. शब्दों का भाववाचक संज्ञा शब्दों में परिवर्तन ।
2. वाक्यांशों के लिए एक शब्द ।
3. विलोम (विपरीतार्थक) शब्द ।
4. पर्यायवाची शब्द ।
5. वचन परिवर्तन ।
6. तत्सम-तद्भव शब्दों का परिवर्तन ।
7. अशुद्ध वाक्यों के शुद्ध रूप ।
8. पत्र लेखन ।
9. निबंधात्मक बारह पंक्तियाँ ।
10. अपठित गद्यांश ।

Birla Vidyamandir, Nainital
SYLLABUS FOR ENTRANCE EXAMINATION
CLASS VIII

ENGLISH

- a. Passage for comprehension.
- b. Short composition.
- c. Informal letter.
- d. Picking up correct words from the list of confusing homonyms e.g. Seller / cellar.
- e. Transforming sentences i.e. present to future and so on, using the correct form of the verb in a given sentences, combining sentences.
- f. Questions framed to test vocabulary.
- g. Abbreviations, names of countries, etc.

MATHEMATICS

Arithmetic: Relational numbers, exponents, decimal representation of relational number.

Commercial Mathematics: Percentage, Profit and loss, simple interest, Discount.

Algebra: Expression; Linear Equations in one variable; Special products:

$$(x+a)(x+b) = x^2 + (x+b)x + ab$$

$$a^2 - b^2 = (a - b)(a+b)$$

$$(a+b)^2 = a^2 + 2ab + b^2$$

$$(a-b)^2 = a^2 - 2ab + b^2$$

Geometry: Parallel lines and their properties; Congruent Triangles.

Mensuration: Perimeter and area of rectangle and square; volume of cube and cuboids.

HINDI

1. वाक्यांशों के लिए एक शब्द ।
2. विलोम (विपरीतार्थक) शब्द ।
3. तत्सम-तद्भव शब्दों का परिवर्तन ।
4. शब्दों का भाववाचक संज्ञा शब्दों में परिवर्तन ।
5. अशुद्ध वाक्यों के शुद्ध रूप ।
6. मुहावरों का वाक्यों में प्रयोग ।
7. शब्दों का विशेषण शब्दों में परिवर्तन ।
8. पर्यायवाची शब्द ।
9. पत्र लेखन ।
10. निबंधात्मक पन्द्रह पंक्तियाँ ।

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SYLLABUS FOR ENTRANCE EXAMINATION
CLASS IX

ENGLISH

- a. Passage for comprehension [10]
- b. Composition [10]
- c. Formal or informal letter [10]
- d. Reported speech [5]
- e. Active-passive voice, abstract nouns and questions based on the structural aspect of language [5]
- f. Vocabulary [5]
- g. General awareness (Names of political personalities, players, authors, etc.) [5]

MATHEMATICS

Arithmetic: Real numbers; square roots; exponents.

Algebra: Algebraic expression (Addition, Subtraction, Multiplication and Division).

Algebraic Identities: $(x + a)(x + b) = x^2 + (a + b)x + ab$
 $(a + b)^2 = a^2 + 2ab + b^2$
 $(a - b)^2 = a^2 - 2ab + b^2$
 $(a + b)^3 = a^3 + b^3 + 3ab(a + b)$
 $(a - b)^3 = a^3 - b^3 - 3ab(a - b)$
 $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$
 $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$

Factorisation: By grouping the terms, trinomial, Factorisation of the form $a^2 - b^2$, $a^3 - b^3$, $a^3 + b^3$; Linear Equations.

Commercial Mathematics: Ratio and proportion, Profit and loss, Discount; Simple interest

Geometry: Properties of parallel lines, congruent Triangles.

The sum of the angle of a triangle is 180° , the angle opposite to equal sides of a Triangle are equal.

Mensuration: Perimeter and Area of a triangle, Rectangle and square, Volume and surface Area of cube and cuboids.

HINDI

1. भिन्नार्थक शब्दों के दो-दो अर्थ।
2. विलोम (विपरीतार्थक) शब्द।
3. तत्सम-तद्भव शब्दों का परिवर्तन।
4. शब्दों का भाववाचक संज्ञा शब्दों में परिवर्तन।
5. अशुद्ध वाक्यों के शुद्ध रूप।
6. मुहावरों का वाक्यों में प्रयोग।
7. शब्दों का विशेषण शब्दों में परिवर्तन।
8. पर्यायवाची शब्द।
9. वाक्यांशों के लिए एक शब्द।
10. पत्र लेखन।
11. निबंधात्मक बीस पंक्तियाँ।