

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- ; kn dh gñ dforK dh nI iñDr; k; l gñ k eafy [kuhA
- 2- fn, x, 'kCn"adk okD; "aeac; "xA
- 3- v'kqA 'kCn"ads 'kqA : i A
- 4- foy'e %oi jhrkfkz½ 'kCnA
- 5- i; k; okph 'kCnA
- 6- Loj&0; at u"ads vk/kkj ij 'kCn jpukA
- 7- fucakRed nI okD;

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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.

MATHEMATICS

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- ; kn dh gñ dforK dh nl iñDr; k; l ysqk ea fy [kuhA
- 2- 'kCn"adk Okookpd l Kk 'kCn"aea ifjorZA
- 3- v'kqA 'kCn"ads 'kqA : iA
- 4- foy'e %oi jhrkfkZ½ 'kCnA
- 5- i; k; okph 'kCnA
- 6- opu ifjorZA
- 7- rRl e&rn0o 'kCn"adk ifjorZA
- 8- v'kq okD; "ads 'kq : iA
- 9- fucakRed nl iñDr; kA

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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 of operations (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 Angles; Unitary Method; Perimeter and Area of a Rectangle and Square.

HINDI

- 1- ; kn dh gñ dforK dh nl iñDr; k; l yd;k ea fy [kuhA
- 2- 'kCn"adk Okookpd l kK 'kCn"aea ifjorZA
- 3- v'kqAk 'kCn"ads 'kqAk : iA
- 4- foy'e %oi jhrkFkd½ 'kCnA
- 5- i; k; okph 'kCnA
- 6- opu ifjorZA
- 7- rRl e&rn0o 'kCn"adk ifjorZA
- 8- v'kq okD; "ads 'kq : iA
- 9- fucdkkRed nl iñDr; kA

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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- ; kn dh gñ dforh dh nl iñDr; k; l y[k ea fy [kuhA
- 2- 'kCn"adk Okookpd l Kk 'kCn"aea ifjorUA
- 3- okD; kAk"adsfy, , d 'kCnA
- 4- foy"e %oi jhrkfkz½ 'kCnA
- 5- i ; k; okph 'kCnA
- 6- opu ifjorUA
- 7- rRl e&rn0o 'kCn"adk ifjorUA
- 8- v'kq okD; "ads 'kq : iA
- 9- i = y[kuA
- 10- fuczkRed ckjg iñDr; kA

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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- okD; kãk"ã dsfy, , d 'kCnA
- 2- foy"e %oi jhrkFkZd½ 'kCnA
- 3- rRI e&rn0o 'kCn"ã dk ifjorÚA
- 4- 'kCn"ã dk Okookpd I Kk 'kCn"ã ea ifjorÚA
- 5- v'kq okD; "ã ds 'kq : i A
- 6- egkøj"ã dk okD; "ã ea Á; "xA
- 7- 'kCn"ã dk fo'kSk.k 'kCn"ã ea ifjorÚA
- 8- i ; kZ okph 'kCnA
- 9- i = yŒkuA
- 10- fucãkkRed i Ung i fDr; kA

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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- fOUukFkZd 'kCn"adsn"&n" vFkA
- 2- foy'e %oi jhrkFkZd½ 'kCnA
- 3- rRI e&rn0o 'kCn"adk ifjorZA
- 4- 'kCn"adk Okookpd I Kk 'kCn"aea ifjorZA
- 5- v'kq okD; "ads'kq : iA
- 6- egkøj"adk okD; "aeaÁ; "xA
- 7- 'kCn"adk fo'kSk.k 'kCn"aea ifjorZA
- 8- i ; k; okph 'kCnA
- 9- okD; kAk"adsfy, , d 'kCnA
- 10- i = y[kuA
- 11- fucakRred chl i fDr; kA