

Written Work

- ENGLISH** : 1. Read the prescribed novel (The story of my life) and write the summary of the novel. Also write two character sketches from the novel. (Word limit 200-250)
2. Write two short stories in 200-250 words.
3. Write one formal letter on each of the following in 100-120 words.

LETTER TO EDITOR

LETTER OF COMPLAINT

- हिन्दी** : 1. राम-लक्ष्मण-परशुराम संवाद संवाद पाठ में राम का व्यवहार विनयपूर्ण और संयत है। लक्ष्मण लगातार व्यंग्य-बाणों का उपयोग करते हैं और परशुराम का व्यवहार क्रोध से भरा हुआ है। आप अपने आपको उस परिस्थिति में रखकर लिखें कि आपका व्यवहार कैसा होता?
2. कुछ मार्मिक प्रसंगों के आधार पर दिखाई देता है कि बालगोबिन भगत प्रचलित मान्यताओं को नहीं मानते थे। पाठ के आधार पर उन प्रसंगों का उल्लेख कीजिए।
3. "दूसरों की क्षमताओं को कम नहीं समझना चाहिए"-उक्त शीर्षक को ध्यान में रखते हुए एक कहानी लिखिए।
4. बालगोबिन भगत पाठ में आए "उपर की तस्वीर से यह नहीं माना जाए कि बालगोबिन साधु थे।" क्या साधु की पहचान पहनावे के आधार पर होनी चाहिए? आप किन आधारों पर सुनिश्चित करेंगे कि अमुक व्यक्ति साधु है। अनुच्छेद लिखें।

MATHS

Chapter 1 Real Numbers

Q.1 If the H C F of 657 and 963 is expressible in the form of $657x + 963(-15)$ find x.

Q.2 Solve $\sqrt{18x} \sqrt{50}$. What type of number is it, rational or irrational?

Q.3 Prove that $1/(2 - \sqrt{5})$ is irrational number.

Q.4 Without actually performing the long division, find if $987/10500$ will have terminating or non-terminating (repeating) decimal expansion. Give reasons for your answer.

Q.5 Show that cube of any positive integer is of the form $4m$, $4m + 1$ or $4m + 3$, for some integer m.

Q.6 Find out the largest number which divides 245 and 1037, having remainder 5 in each case?

Q.7 Three pieces of timber 42m, 49m and 63m long have to be divided into planks of the same length. What will be the greatest possible length of each plank. How many planks are formed?

Q.8 Find the HCF of the following by Euclid Division lemma.
 (a) 129, 545 (b) 504 and 735 (c) 252 and 594

Chapter 2 Polynomials

Q.1 Divide $30x^4 + 11x^3 - 82x^2 - 12x - 48$ by $(3x^2 + 2x - 4)$ and verify the result by division algorithm.

Q.2 Given that $\sqrt{2}$ is a zero of the cubic polynomial $6x^3 + \sqrt{2}x^2 - 10x - 4\sqrt{2}$, find its other two zeroes.

Q.3 Find the polynomial, sum of whose roots is $\sqrt{2}$ and product is $1/3$.

Q.4 If $(x+a)$ is a factor of $2x^2 + 2ax + 5x + 10$, Find the value of a.

Q.5 Compare the following Quadratic Polynomials with form $ax^2 + bx + c$ and find the value of a, b and c. Also factorize the following and find their zeroes.
 (a) $5x^2 - 4 - 8x$ (b) $x^2 + 3x - 10$ (c) $x^2 - 2x - 8$

Q.6 If -2 is a zero of the polynomial $3x^2 + 4x + 2k$, Find the value of k.

Q.7 Obtain all zeroes of the polynomial $2x^4 - 11x^3 + 7x^2 + 13x - 7$, it being given that the two of its zeroes are $3 + \sqrt{2}$ and $3 - \sqrt{2}$.

Chapter 3 Introduction to Trigonometry

Q.1 If $\sec \theta = 25/7$, Find all the trigonometric ratios.

Q.2 If $\cot \theta = 15/8$ then evaluate $\frac{(2+2\sin\theta)(1-\sin\theta)}{(1+\cos\theta)(2-2\cos\theta)}$.

Q.3 Evaluate the following :
 (a) $\frac{4}{\cot^2 30} + \frac{1}{\sin^2 30} - 2 \cos^2 45 - \sin^2 0$ (b) $\frac{5\cos^2 60 + 4\sec^2 30 - \tan^2 45}{\sin^2 30 + \cos^2 30}$
 (c) $\sin^2 30 \cos^2 45 + 4\tan^2 30 + \frac{1}{2} \sin^2 90 + \frac{1}{8} \cot^2 60$

Q.4 Find out the value of angle A in the following cases :
 (a) $\tan 2A = \cot (A - 12)$ (b) $\sec (15 - 4A) = \operatorname{cosec} (7A)$
 (c) $\sin (A + 20) = \cos (2A - 50)$

Q.5 Prove that
 (a) Prove $(1 + \cot A - \operatorname{cosec} A)(1 + \tan A + \sec A) = 2$ (b) $\sec^4 \theta - \sec^2 \theta = \tan^4 \theta + \tan^2 \theta$
 (c) $\frac{\cos A}{(1 - \tan A)} + \frac{\sin A}{(1 - \cot A)} = (\cos A + \sin A)$ (d) $\frac{\tan A}{(1 - \cot A)} + \frac{\cot A}{(1 - \tan A)} = (1 + \tan A + \cot A)$

Chapter 15 Probability

- Q.1 Explain the following events with the help of a practical examples. (take the experiment of throwing a dice)
 (a) Equally likely events (b) Sure Event (c) Impossible Event (d) Complementary Event
- Q.2 Three fair coins are tossed simultaneously. Write down the sample space of the experiment. Also find out the probability of the following:
 (a) Getting exactly two Heads (b) Getting at least two heads (c) Getting at most two heads
 (d) No heads at all (e) getting one tail (f) getting exactly 1 tail and 2 heads
- Q.3 Two fair dice are thrown simultaneously, Write down the sample space of the experiment. Find the probability of the following events:
 (a) Getting a sum of more than 10 (b) Getting a doublet (c) Getting a sum equal to a prime number
 (d) Getting a multiple of 3 on either die (e) Getting a sum of 10
- Q.4 A card is chosen from a well shuffled deck of cards randomly. Find out the probability of the following events :
 (a) Getting an ace (b) Getting a black face card (c) Getting a number less than 2 of spade or diamond
 (d) Getting a Red card (e) Getting a jack of heart diamond or club (f) getting any of card of any suit
- Q.5 A jar contains 24 marbles, some are green and others are blue. If a marble is drawn at random from the jar, the probability that it is green is $\frac{2}{3}$. Find the number of blue marbles in the jar. Also Find out the probability of getting blue marble from the jar.

SCIENCE

- : **1. Survey work:** Start an “Electricity Saving Campaign” in your house and nearby Household (maintain a file with proper presentation)
- *Aware them about using energy saving appliances (at least 5 household, their Address, mobile no. & respective feedback of their owners for your awareness program.)
 - *Explain about units consumed & electricity bill calculation.
 - *Ask them to adopt one energy saving habit for one month.
 - *Explain them about L.E.D (clearing all myth of it being expensive) and solar devices (like heater, panel, light, cooker etc.) with all government schemes.
 - *Compare and paste previous bill and latest bill (after awareness program).
 - *Calculate change mathematically; write their reviews and different ratings of appliances.
- 2. PowerPoint Presentation** (more than 30 slides, videos & models inclusive/topic. **(If Even a single slide matched between two students work, works of both the students will be discarded)**
- * “Journey of energy” from conventional sources to Nonconventional sources (with new innovative own ideas and their presentation on slides, focus on nonconventional sources of energy with new modern advancements in this field.), take help from Ch- Sources of Energy.
 - * “Entire pathway of route of blood” including heart, lung, kidney etc. with respective diagrams, proper labeling, organ wise hormones listing with their functions. Take help from Ch-Life processes, Ch- Control & coordination.

SOCIAL STUDIES

Make a project on the Topic Money and credit & cover the following points

1. Medium of Exchange
2. Other forms of Money
3. Terms of credit
4. Sources of credit
5. Sources of credit in India
6. Self help group for poor
7. Functioning of RBI

Choose any bank from near by your area Collect the following & paste

1. Pay in slip
2. Acc. Opening form
3. Withdrawal from
4. Cheque (From your parent)
5. locker form
6. Loan form

*** Take any rupee note, prepare and highlight the various information available on the note.**

FRENCH : 1. Describe a place,city.(150 words.)

2. Letter- Write a letter to your friend and narrate your summer holidays. (in past tense and in present 80 to 90 words.)

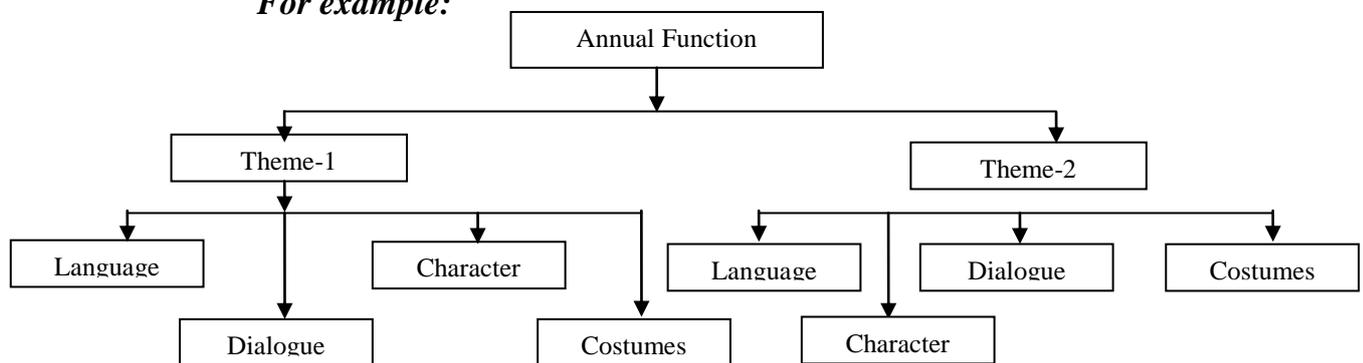
3. Revise previous topics of grammar.

4. Write or present your friend (80 words)

5. Learn and write / paste French songs lyrics Eaiha /omècrit sur les murs.

COMPUTER : The Annual Function is being organized. Analyze the tree structure of atleast two themes (per child) and write the corresponding XML code.

For example:



ART & CRAFT : 8 still life object drawing like : Book, Jug, Pen, Vegetables, etc.

Full revision of Syllabus covered in all subjects.

Note : All holiday home-work should be done in a separate File.

Monday, 03rd July, 2017

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School re-opens after Summer break.

Timings

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07:30 a.m. to 01:00 p.m.

*Office will remain open during Summer Vacation.
Contact school office from : 08:00 a.m. to 12:00 Noon.*

Holiday Home Assignment is also available at our School Web Site :

www.edmunds.ac.in

Dr. (Mrs.) Pooja Singh
Principal

Mrs. Meena Singh
Director Academics