



RED ROSE

SENIOR SECONDARY SCHOOL

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SUMMER

Holiday



HOMEWORK

**CLASS
XI-A**



English | Maths | Physics | Chemistry | Biology | Hindi | IP | P.Ed. | Yoga | FMM | WEB APP

ENGLISH

A) Write about the life history of Khushwant Singh in 500 words.

B) Fill the correct forms of tenses:

- 1) He (beat) the thief if he catches the man.
- 2) Unless they (request) me, I would not go.
- 3) They would have won if they (play) well.
- 4) If you (inform) me I would have reached the station.
- 5) She might catch the bus if she..... (run) fast.
- 6) If she (not work) hard, she will fail.
- 7) Unless she (mend) her ways, she will suffer.
- 8) If you (help) me, I would have completed this job.
- 9) If I (be) a bird I would fly to you.
- 10) In case you (see) Avish, give him this book.

C) Design a poster in not more than 50 words about the need for Regular Exercise. You may use slogans.

D) Tourism Department, Government of Uttaranchal has launched an ambitious plan to develop adventure sports and eco-tourism activities in the state. Prepare a suitable poster for display at important public places /publication in newspapers.

E) **Identify the adjective clause in the below sentences.**

- 1) The book that is on the table belongs to Ria.
- 2) The woman who is wearing a red shirt is my mother.
- 3) I visited the place where my grandmother grew up.
- 4) He likes to read books that have happy endings.
- 5) The cat, which is brown and white, is very friendly.
- 6) She bought a car that runs on electricity.
- 7) The cafe where we had lunch last afternoon was excellent.
- 8) The boy who won the competition was ecstatic.
- 9) The house whose roof was damaged in the storm needs repairs.
- 10) The teacher who teaches Hindi is very knowledgeable.

MATHEMATICS

ACTIVITIES

1. To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2^n .
2. To verify that for two sets A and B , $n(A \times B) = pq$ and the total number of relations from A to B is $2pq$, where $n(A) = p$ and $n(B) = q$.
3. To represent set theoretic operations using Venn diagrams.
4. To distinguish between a Relation and a Function.

5. To verify the relation between the degree measure and the radian measure of an angle.

PROJECT

Project on history of Mathematicians: It may include history of Indian mathematicians such as Aryabhata, Brahmgupta, Varahamihir, Sridhara, Bhaskarcharya, Ramanujan etc .,

PHYSICS

| | |
|---|---|
| Work Specification : | Project work |
| Materials / Resources Required : | One Project file , Text Book, Writing & Drawing Materials, Internet & Library support, Covering Material, Reference Books, Newsprints , Photographs, Graphs, where applicable |
| Instructions / Guidelines : | <p>You are required to prepare a technical report formally written, including an abstract, some theoretical discussion, experimental set up, observation and data collected, analysis and discussion of the result, conclusion e.t.c the project can be a theoretical one as well on any of the topic related to physics.</p> <p><u>You will be assessed on:</u></p> <ul style="list-style-type: none">a) Conceptual clarity /understandingb) Computations (if any)c) Presentation (No extra credit shall be given for type-written material / decorative cover. e.t.c <p>You can work on any topic of your choice from the list given below or any topic related to the physics syllabus of class XI.</p> <ul style="list-style-type: none">1) Role of physics in technology2) Application of vectors and scalar quantities and its significant.3) Rocket propulsion and application of Newton's Law4) Simple Harmonic motion5) Center of mass M. I and related topic.6) Friction advantages, disadvantages in day to day life its law and application.7) Bernoulli's principle and its application. Pascal law |

CHEMISTRY

Make a project file on any one given topic-

1. Periodic table
2. Laws of chemical combinations
3. Rutherford's model of an atom
4. Line spectrum of Hydrogen
5. VSEPR theory
6. VBT theory
7. Work done in isothermal process
8. Work done in adiabatic process
9. Alkanes
10. Alkenes
11. Alkynes
12. Qualitative analysis of Carbon and Hydrogen

BIOLOGY

Make a investigatory project on given topic....

1. Blood groups
2. Mitotic cell division
3. Meiotic cell division
4. Structure of Mitochondria and it's functions
5. Structure of Chloroplast and it's functions
6. Structure of proteins
7. Structure of Lipids
8. DNA Structure
9. Endocrine glands and it's functions.
10. Enzyme & it's properties

HINDI

परियोजना कार्य

कबीर दास रोल नंबर 1 से 2

मुन्शी प्रेमचंद रोल नंबर 3 से 4

मीराबाई रोल नंबर 5 से 6

जनसंचार के माध्यम रोल नंबर 7 से 8

मियां नसीरुद्दीन पाठ के प्रश्नों को याद करना है

मीराबाई पाठ के प्रश्नों को याद करना है।

सभी क्षात्र स्व वृत्त लेख लिखेंगे।

INFORMATICS PRACTICES (065)

Make practical file with following programs

- 1) Write a program to input radius and print the volume of sphere
- 2) Write a program to input radius and height and print the volume and total surface area of cone.
- 3) Write a program to input HRA, DA, PF and Basicpay then print the netpay.
 $\text{netpay} = \text{HRA} + \text{DA} + \text{Basic} - \text{PF}$
- 4) Write a program to input two numbers and swap them using third variable.
- 5) Write a program to input marks of 5 subjects then print the total marks and average marks.

PHYSICAL EDUCATION

Proficiency in Games and Sports.

(Skill of any one IOA recognised Sport / Game of Choice)

YOGA

1. Practice of Surya Namaskar
2. Practice of Halasana
3. Practice of Pawanmuktasana
4. Practice of Bhujangasana
5. Practice of Vakrasana

FMM

The final Project work should encompass Chapters on!

- a) Introduction
- b) Identification of core and advance issues,
- c) Learning and Understanding and observation during the project period.

| S. NO. | Name of the Student | Name of the Company |
|--------|---------------------|---------------------|
| 1 | Aditya | Infosys |
| 2 | Anmol | Zara |
| 3 | Anshika | Infosys |
| 4 | Mahi | Zara |
| 5 | Raj | Infosys |
| 6 | Khyati | Zara |
| 7 | Naitik | Infosys |
| 8 | Archit | Zara |
| 9 | Ayushi | Infosys |
| 10 | Shreya | Zara |
| 11 | Kartik | Infosys |
| 12 | Abhay | Zara |
| 13 | Avni | Infosys |
| 14 | Saurabh Chauhan | Zara |

Note:

- First 6 to 8 page must be covered relevant to topic.
- At last conclusion and bibliography must be there.

WEB APPLICATION

- a) Create a web page including two headings with center alignment, Blue & Red colour, font family Arial, insert any images with height and width 200px, an ordered list for favourite spots of holiday and also insert a table with following given details:

| | | |
|----|-----|----|
| A | B | C |
| 10 | 20 | 30 |
| X | XII | XI |