



SAINIK SCHOOL REWARI
DIWALI VACATION HOMEWORK (2019-20)
CLASS – X

Instructions to be followed by Cadets:

1. Do the entire Vacation Work in one Notebook only.
2. Do the work in notebook in a sequence as mentioned below:-
 - (a) English, Hindi, Maths, Science, Social Studies for classes VI –X
 - (b) English, Maths, Physics, Chemistry Bio/Computer for classes XI-XII
3. Vacation Work should be done neatly and efficiently. It will be duly marked as a part Of your assessment.
4. Any additional chart paper/Map /Model if any required in vacation work, should be submitted separately along with vacation work note book.
5. Do not get up late. Rise at the usual time and go for a morning walk, or play a game that interests you. Talk about things you see around. Plan some outdoor and indoor games. Spend some time on a hobby.
6. Read newspaper. Keep yourself updated. Reading from colorful illustrated story books will develop your language skills. Listen to stories from family members and try to narrate the stories you have read from various story books.
7. Assign a permanent workplace and a work-time. This brings in discipline in your life. If there is a subject you are weak in, try and work on improving that weakness. You will be more confident when you go back to school.
8. Inculcate good manners – 4 magic words 'Please, Thank you, Excuse me, Sorry' – Use them and see the difference.

ENGLISH

1. Write two business letters to demand for books for school library and sports items for school.
2. Write two letters to the Editor of a newspaper on environmental pollution and cleanliness campaign.
3. Write two articles on dowry system and child marriage.
4. Write two stories giving it the appropriate heading.
5. Revise Unit 6, 7 and 8 of main reader along with poetry section.
6. Read newspaper daily and maintain day wise review of main news on Politics, International, Sports, Entertainment and Technology etc.
7. Write at least five new words and their meanings.

हिंदी

1. स्वतंत्रता आंदोलन में महिलाओं की भी सक्रिय भागीदारी रही। उनके बारे में जानकारी प्राप्त कीजिए और उनमें से किसी एक पर प्रोजेक्ट तैयार कीजिए।
2. आज की पीढ़ी द्वारा प्रकृति के साथ किस तरह का खिलवाड़ किया जा रहा है। इसे रोकने में आपकी क्या भूमिका होनी चाहिए? लिखिए।
3. देश की सीमाओं की रक्षा करने वाले भारतीय सैनिकों के जीवन से किन-किन जीवन-मूल्यों को अपनाया जा सकता है? लिखिए।
4. किसी एक प्रसिद्ध व्यक्ति का परिचय देने के लिए आलेख (स्क्रिप्ट) तैयार कीजिए।
5. किसी एक प्रसिद्ध साहित्यकार की आत्मकथा/संस्मरण पढ़ें व ग्रहीत शिक्षा लिखें।
6. आप अपने विद्यालय में वार्षिक खेलकूद प्रतियोगिता का आयोजन किस प्रकार से करेंगे? लिखिए।
7. क्षितिज-II गद्य खंड- पाठ 5,6 व काव्य खंड अभ्यास सहित याद करे व कृतिका पढ़े।

MATHEMATICS

1. Prepare mathematics practical file and do the following activities:
 - (a) To obtain the conditions for consistency of a system of linear equations in two variables by graphical method.
 - (b) To verify that the given sequence is an arithmetic progression by paper cutting and pasting method.
 - (c) To verify the Basic Proportionality Theorem using parallel line board and triangle cut-outs.
 - (d) To verify the Pythagoras Theorem by the method of paper folding, cutting and pasting
 - (e) To verify using the method of paper cutting, pasting and folding that the lengths of tangents drawn from an external point are equal.
2. Do the questions from the chapter 'Height and Distances' of the following exercise from reference book RD Sharma:

Exercise	Questions	Page no.	Reference Book
12.1	Q.no.1 to 15	12.29	RD Sharma

3. Do the questions from the chapter 'Areas Related to Circles' of the following exercise from reference book RD Sharma:

Exercise	Questions	Page no.	Reference Book
13.1	Q.no.1 to 15	13.12	RD Sharma

PHYSICS

1. What do you mean by Reflection of Light?
2. State the Laws of Reflection.
3. What is Spherical Mirror? What are its types?
4. Define the following terms
 - (a) Pole
 - (b) Focus
 - (c) Centre of Curvature
 - (d) Principal Axis
5. Prepare the table for concave mirror image formation with the position of object, position of image and nature of image.
6. Write two uses of concave and convex mirror.

CHEMISTRY

1. Arrange the following metals in a decreasing order of activity: Na, K, Cu, Ag
2. From amongst the metals sodium, calcium, aluminum, copper and magnesium, name the metal
 - (a) Which reacts with water only on boiling and
 - (b) Another which does not react even with steam.
3. Name two metals which react violently with cold water. Write any three observations you would make when such a metal is dropped into water. How would you identify the gas evolved, if any, during the reaction?
4. (a) What are amphoteric oxides? Choose the amphoteric oxides from amongst the following oxides:
Na₂O, ZnO, Al₂O₃, CO₂, H₂O
 - (b) Why is it that non-metals do not displace hydrogen from dilute acids?
5. Give reason why:
 - (a) Metals are good conductors, whereas non-metals are bad conductors of electricity.
 - (b) Metals replace hydrogen from acids whereas non-metals do not.
 - (c) An iron knife dipped in a blue copper sulphate solution turns the blue solution light green.
 - (d) Sodium is kept under kerosene.
 - (e) Carbon cannot reduce the oxides of sodium or aluminum.
6. Explain how the following metals are obtained from their compounds by the reduction process:
 - (a) Metal *M* which is in the middle of the reactivity series.
 - (b) Metal *N* which is high up in the reactivity series.
 - (c) Give one example of each type.
7. What is meant by refining of metals? Name the most widely used method of refining impure metals produced by various reduction processes. Describe with the help of a labeled diagram how this method may be used for refining of copper.
8. Distinguish between 'roasting' and 'calcination'. Which of these two is used for sulphide ores and why?
9. Write a chemical equation to illustrate the use of aluminum for joining cracked railway lines.
10. Name the anode, the cathode and the electrolyte used in the electrolytic refining of impure copper.
11. What is meant by 'rusting'? With labeled diagrams describe an activity to find out the conditions under which iron rusts.
12. Give reason for the following observation: Copper vessels get a green coat when left exposed to air in rainy season.

BIOLOGY

1. Make a Science Report showing current news in the field of Science (Biology), also mention date and sources of news.
2. Practice questions from previous years sample papers on the chapters done in the class.

GEOGRAPHY

1. Prepare two posters on Hazards of Mining and Industrial disasters.
2. Prepare the map of India on full size chart paper depicting the following themes. (Use separate chart for different theme) Draw and label the Political and physical map of India by using stencil, colors and symbols.
 - (a) India – important industrial regions.
 - (b) India- minerals distribution.
 - (c) India- Important air and sea ports.
 - (d) India – Important Highways and waterways
 - (e) India- Nuclear Power plants.

ECONOMICS

1. What do you mean by sources of Credit? Why is it important for development?
2. What do you mean by liberalization? How was it important to improve India's economic condition?

HISTORY & POLITICAL SCIENCE

1. Make a survey report on the following aspects of National and regional political parties of your state:
 - (a) Symbol of Party
 - (b) Slogan of party
 - (c) Manifesto during election
 - (d) Incumbent/opposition party
 - (e) Leaders
 - (f) How parties become national/regional party?
2. How do popular struggle movements and pressure groups influence politics? Write a project report on any famous pressure group /popular movement.
3. Write a detailed note on the role of Mahatma Gandhi ji in the Indian National Movement.
4. Learn and write ch.1, 2 & 3 of History and ch.02, 03 & 04 Pol. Sc.

FIT

1. Prepare a power point presentation (PPT) on Diwali celebration with its historical importance with at least 20 slides& make CD and put that in a proper CD cover and submit to subject teacher after Diwali vacations on 08 Nov 19 positively.

ART

1. Make one Collage on Chart Paper on any one theme of the following:
 - (a) Indian Army
 - (b) Indian Air Force
 - (c) Indian Navy
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