

NORTH-EX PUBLIC SCHOOL, JAIN NAGAR
SUMMER BREAK ASSIGNMENT, 2018-19
CLASS- X

ENGLISH

- Make a file of 5 pages in which you have to draw a pen picture of Hellen Keller's childhood. (Novel- The story of my life)
- The two boys in the story (Two Gentlemen of Verona) manage their life on their own. They don't go for begging; instead they work very hard and earn their livelihood on their own. Based on your reading of the story write a paragraph on the topic: 'Importance of self-dependence in life'.
- Mobile phones, video games, internet and play stations have replaced the conventional outdoor games that children used to play. Do you agree? Write an article in about 100-120 words, expressing your agreement or disagreement with the same. (Use A-4 size sheet).
- Draft a poster on the 'Importance of conservation of electricity. (Use A-4 size sheet).

MATHS

1. Show that the square of any positive integer cannot be of the form $6m+2$ or $6m+5$ for any integer m .
 2. Find k so that $x^2 + 2x + k$ is a factor of $2x^4 + x^3 - 14x^2 + 5x + 6$. Also find all the zeroes of the two polynomials.
 3. Two numbers are in the ratio 5:6. If 8 is subtracted from each of the numbers the ratio becomes 4:5 then find the numbers.
 4. Find a natural number whose square diminished by 84 is equal to thrice of 8 more than the given number.,
 5. Do activity no. 1,2,3, 5,9 and 12 from maths lab manual in practical notebook.
- Note: Revise chapter 1,2,3 and 4 from NCERT TEXT BOOK and NCERT EXAMPLAR PROBLEMS for periodic test I.

SCIENCE

1. A cable of resistance of resistance 12Ω carries electric power from a generator producing 250 kW at 10,000 V. Calculate
 - (i) The current in the cable,
 - (ii) The power lost in the cable during transmission, and
 - (iii) The potential difference across the ends of the cable.
2. Answers the following
 - (a) State the ohms law.
 - (b) Derive an expression for equivalent resistance for three resistors having value R_1 , R_2 and R_3 when connected in parallel combination.
 - (c) A piece of wire of resistance R is cut into five equal parts. These parts are then connected in parallel. If the equivalent resistance of this combination is R^* , then find the ratio R/R^* .

3. "A solution of potassium chloride when mixed with silver nitrate solution, an insoluble white substance is formed."
 (a) Translate the above statement into a chemical equation.
 (b) What type of reaction is this?
 4. A magnesium ribbon is burnt in oxygen to give a white compound X accompanied by emission of light. If the burning ribbon is now placed in an atmosphere of nitrogen, it continues to burn and forms a compound Y.
 (i) Write the chemical formulae of X and Y.
 (ii) Write the balanced chemical equation when X is dissolved in water.
 5. A strip of copper was placed in a beaker containing zinc sulphate solution. On observing the strip next day, was there any colour change in the strip? Give reason for your answer.
 6. Prepare a working model on conventional and non conventional sources of energy.
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7. Out of a cow and lion, which has a longer small intestine and why?
 8. Describe the structure and functioning of nephron.
 9. Make a 3D model of
 - i) excretory system(Roll No – 1 to 10)
 - ii) Heart (Roll No – 11 to 20)
 - iii) Respiration System (Roll No – 21 to 30)

SST

1. Illustrate the contribution of Italian revolutionary Giuseppe Mazzini in spreading revolutionary ideas in Europe?
2. Why is it essential to have resource planning? Explain any three reasons?
3. Explain common, different and conflicting goals by giving suitable example?
4. Explain the concept of underemployment in the urban areas with the help of suitable examples?
5. Maintain a project on any one topic in project file.
 - a. Popular struggle and movement(civics)
 - b. Money and credit (eco)

FIT

- Q1. Prepare a project report on the topic : Internet & Web Services. Submit a printed copy of the same.
- Q2. Prepare a poster to emphasize on the advantages of Internet. Use your creativity to make it as attractive as possible.
- Q3. Revise Chapter – 1, 2 for the upcoming periodic test.

ARTS

TREASURE OF ART

1. Draw and color on page no 70 on brown colored handmade sheet. (Mexican Fold Painting)
2. Draw and color on page no 48 on A3 size sheet.
3. Make paper sculpture page no 50 (any one) with big and thick pastel sheet.

CRAFT

1. Bring one flower pot and decorate with clay and colour it with acralic colour,glitter,stones etc(like pg 71,72,73,74)
2. Five beautiful and attractive envelopes with handmade sheet and decorate it.
3. Make one painting (as per your choice) with hanging and binding.

NOTE : Search on Google Images

HINDI

Page No.	
Date	

वीरमकालीन उपकाश हेतु गृहकार्य
 कक्षा - दरमवी
 विषय - हिंदी

प्रश्न 1. कबीर को समाज सुधारक कहना उचित होगा ? स्पष्ट कीजिए।

प्रश्न 2. कावे बिहारी को काल्यगत विशेषताओं का उल्लेख कीजिए।

प्रश्न 3. क्या खेल और पढ़ाई का कोई संबंध है ? पाठ छोड़ें माइसाहब के आचार पर स्पष्ट कीजिए।

प्रश्न 4. मनुष्य समाज में रहते क्या बनाता है ? पाठ हरहर काका के आचार पर स्पष्ट कीजिए।

प्रश्न 5. क्या हमारे समाज में उनका भी सादृश्य विद्यमान है ? यदि है तो उन्हें कैसे दूर किया जा सकता है ?