केंद्रीय विद्यालय आय.एस.पी. नेहरू नगर नाशिक

गृहकार्य - ग्रीष्मकालीन अवकाश

2019-2020

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HOLIDAY HOME WORK
2019-20

SUB - ENGLISH   Class - XII

1. Note-making of First 5 Chapters of the novel. Notes should be prepared for each chapter separately. Use proper abbreviations.

2. Draft Advertisements for the following (2 each):
    A. Household item for sale
    B. To-let
    C. Required/Vacancy
    D. Matrimony
    E. Services (Showroom/Gym/Coaching etc.)

3. Write articles on the following topics:
    A. Language as a means of suppression [ref.:– The Last Lesson]
    B. The greatest challenge is to overcome fear. [ref.:- Deep Water]

4. Water is precious and each one of us must stop wastage. Prepare a poster in not more than 50 words urging people to employ various methods of rainwater harvesting in their colonies.

5. The recent rain caused great havoc in the city. Many buildings collapsed and several trees got uprooted blocking traffic at several places. Write a report to be published in a national daily.

6. Recently you went to you native village to visit your grandparents. You saw that some of the children in the age group 5-14 (the age at which they should have been at school) remained at home, were working in the fields or were simply loitering in the streets. Write a letter in 120-150 words to the editor of a national daily analysing the problem and offering solutions to it.

7. Bring out the elements of satire, irony and humour from the chapter 'The Tiger King'.

8. Why it is important to keep one's language alive? What are the reasons behind extinction of many languages?

9. Explain the following statements:
    A. "Will they make them sing in German too?"
    B. "The steel canister seemed heavier than the garbage bag."
    C. "Few airplanes fly over Firozabad."

10. How is the plight of underprivileged children brought out it in the chapter 'Lost Spring'?

11. What was Dr. Sadao's dilemma? Do you agree that his final solution was the best under the circumstances?

12. Give character sketches of Griffin and Mrs. Hall.

विषय – हिन्दी   कक्षा – बारहवीं

1. अपने विद्यालय के वार्षिकोत्सव पर एक प्रतिवेदन लिखिए।

2. 5 अपठित गद्यांशों को हल कीजिए।

3. 5 अपठित पद्यांशों को हल कीजिए ।

4. "सिमटते गांव और फैलते शहर" एवं "पढ़ाई से वंचित बचपन " विषयों पर फीचर लिखिए ।

5. " मेरे सपनों का भारत" तथा "धरती का बढ़ता तापमान" विषयों पर एक एक आलेख लिखिए ।

6. अपनी कोई भी एक रचना लेख), कहानी ,कवितालिखने का प्रयास कीजिए। (

7. किसी भी किसी भी समाचार पत्र या पत्रिका से 5 संपादकीय लेखों को संकलित कीजिए एवं उस पर अपनी राय दीजिए ।

SUB - MATHEMATICS   CLASS-XII

1. To solve questions on determinants and matrices from previous years board exam papers.

2. To revise the chapters determinants and matrices for monthly test for the month of June.

3. To to be present for extra classes from 2.05 .2018 to 5.06 .2018. chapters relations and functions and inverse trigonometric functions will be taken.

4. To solve questions from previous years board exam papers on the chapters relations and functions and inverse trigonometric functions.

SUB - COMPUTER SCIENCE   CLASS-XII

1. Write a program to calculate the length of a string.
2. Write a program to get a string where all occurrences of its character changed to "$", except first character itself.
3. Write a program to remove the Nth index character from a nonempty string.
4. Write a program to check whether a string starts with specified characters.
5. Write a program to print the floating numbers with no decimal places.
6. Write a program to count and display the vowels of a given text.
7. Write a program to sum all the items in a list.
8. Write a program to get the largest number from a list.
9. Write a program to remove the duplicates from a list.
10. Write a function that takes two lists and return "True" if they have at least one common member.
11. Write a program to count the number of elements in a list within a specified range.
12. Write a program to replace the last element in a list with another list.
13. Write a program to create a dictionary from two lists without losing duplicate values.
14. Write a Python function to reverse a string.
15. Write a Python function that accepts a string and calculates number of uppercase and lowercase letters.
16. Write a Python function to print the even numbers from a given list.
17. Write a Python function that prints first N rows of "Pascal's triangle".
18. Write a Python function to make a chain of function decorators (bold, italic, underline).

SUB. ECONOMICS   Class XII Commerce

Q. 1)   What do you mean by economic problem?
Q. 2)   What to produce?
Q. 3)   Draw PPC.
Q. 4)   Explain briefly the main properties of PPC.
Q. 5)   Draw PPC show rightward shift.
Q. 6)   Distinguish between Micro and Macro Economics.
Q. 7)   What are the central problem of an economy?
Q. 8)   Draw the table and show marginal opportunity cost with the help of a table.

Production possibilities	Good A	Good B	MOC

A	0	15	-
B	1	14	1
C	2	12	2
D	3	9	3
E	4	5	4
F	5	0	5

Q. 9)   Draw PPC and show the following:

i) Under utilization of resources,   ii) Fuller utilization of resources,   iii) Growth of resources.

Q. 10) Complete the following table.

X	Y	MOC
0	150	
1	140	
2	120	
3	90	
4	50	
5	0	

- PROJECT WORK.

SUB - PHYSICS   Class - XII

Q1. What is equipotential surface? Show that electric field is always perpendicular to the equipotential surface.

Q2. Is electric field intensity a scalar or vector quantity? Why no two electric lines of force can intersect each other?

Q3. A parallel plate capacitor is charged by a battery which is then disconnected. A dielectric slab is then inserted in the space between the plates . Explain what charges , if any occur in the values of
   a) Capacitance
   b) Potential difference between the plates.
   c) Electric field between the plates.
   d) Energy stored in the capacitor.

Q4. Using Gauss law , derive an expression for the electric field intensity at any point near a uniformly charged thin wire .

Q5. Explain
   a) Dielectric constant
   b) Principle of Van de graff generator.

Q6. A point charge of 2micro coulomb is the centre of a cubic Gaussian surface 9 cm on edge. What is the net electric flux through the surface?

Q7. Two fixed point charges +4e and +e units are separated by a distance a. Where should a third charge q be placed for it to be in equilibrium?

SUB - CHEMISTRY   Class - XII

Topic: Solids and their classification.

1. What are fluids? Give examples.
2. Solids are rigid why?
3. How are solids classified?
4. Define the term amorphous with example.
5. The window panes of the old buildings are thick at the bottom. Why?
6. The stability of a crystal is reflected in the magnitude of its melting point. Explain
7. Graphite is soft and good conductor of electricity. Explain.
8. Ionic solids are good conductors in molten state and in aqueous solutions but not in solid state. Why?
9. Differentiate between amorphous and crystalline solids with reference to
(1) Melting point

(2) Cleavage property

(3) Nature

10. How are crystalline solids classified on the basis of nature of bonding? Explain with examples.

Topic: Structures of crystals

1. Define the term: Crystal lattice
2. What is a unit cell?
3. What are the axial angles and edge length in a cubic crystal system?
4. Give one example of each – Tetragonal and hexagonal crystal system.
5. Name three types of cubic unit cells?
6. How many atoms are there in a unit cell of a metal crystallizing in a:
(a) FCC structure
(b) BCC structure
7. What is the contribution of an atom per unit cell if the atom is:
(a) At the corner of the cube.
(b) On the face of the cube.
(c) In the centre of the cube.
8. A compound formed by A & B crystallizes in the cubic structure where 'A' are at the corners of the cube and B are at the face center. What is the formula of the compound?
9. Calculate the no. of atoms in a cubic based unit – cell having one atom on each Corner and two atoms on each body diagonal.
10. What is the no. of octahedral and tetrahedral voids present in a lattice?

Topic – Packing in crystals

1. What is square close packing? 2. What is the coordination number in :-
(a) Square close packing (b) Hexagonal close packing.
3. Define – (a) void (b) coordination Number
4. What is the packing efficiency in
(a) hcp structure (b) BCC structure (c) Simple cubic structure
5. Give the relationship between density and edge length of a cubic crystal.
6. Copper which crystallizes as a face – centered cubic lattice has a density of 8.93 g/cm3 at 20o C. calculate the length of the unit cell.
7. An element crystallizes in BCC structure. The edge of its unit cell is 288 pm. If the density is 7.2 glcm3, calculate the atomic mass of the element.
8. The compound CuCl has ZnS structure and the edge length of the unit cell in 500pm. Calculate the density. (Atomic masses: $Cu = 63$, $Cl = 35.5$, Avogadro no $= 6.023 \times 10^{23}$ mol-1)
9. In a compound, B ions form a close – packed structure & A ions occupy all the tetrahedral voids. What is the formula of the compound?
10. In crystalline solid, anions C are arranged in cubic close – packing, cations A occupy 50% of trahedral voids & cations B occupy 50% of octahedral voids. What is the formula of solid?

Topic – imperfections in crystals

1. What is the meaning of term 'defect' with reference to crystal?
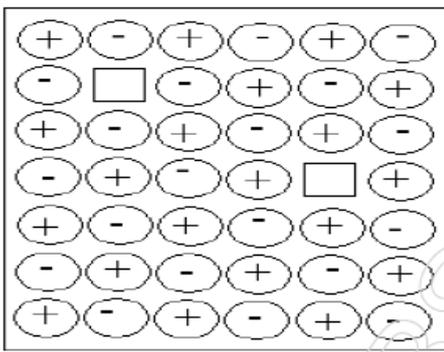2. Define two main types of defects.
3. Name the types of point defect.
4. (a) Identify the defect in figure below :
(b) How does it affect the density of crystal?
(c) Give an example of crystal where this defect can be found.
(d) What is its effect on electrical neutrality of crystal?

5. Which defect is observed in a solid solution of CdCl2 and AgCl? Explain.

6. Excess of lithium makes LiCl crystal pink. Explain.
7. What are F centres?
8. How does a crystal changes due to presence of F centre?
9. Give an example which shows both Frenkel and Schottky defect.
10. Which type of ionic substances show?
(a) Schottky defect
(b) Frenkel defect

<div align="center">Topic – Electrical and magnetic Properties</div>

1. Define the term – doping.
2. What is the meaning of 13 – 15 compounds?
3. Name an element which can be added to silicon to give a –
(i) p – type semiconductor (ii) n – type semiconductor.
4. What is the difference between ferromagnetic and paramagnetic substances?
5. In the fig –

$\uparrow \downarrow \uparrow \downarrow \uparrow \downarrow \uparrow \downarrow$

(a) Identify the magnetic behavior of substance.
(b) How are these substances different from diamagnetic substances?
6. Define the terms – Intrinsic semiconductor and extrinsic semiconductor.
7. Classify solids on the basis of their conductivities.
8. Explain conduction of electricity on the basis of band theory.
9. Give two examples of each.
(a) Ferromagnetic substances (b) Ferrimagnetic substances
10. Give two application of p – type and n – type semiconductors.

SUB - BIOLOGY   Class - XII

Prepare rough draft of self-selected investigatory project topic

SUB - ACCOUNTANCY   Class - XII

I.   Three sums based on each topic (IOD,IOC,P&L App A/c, fixed and fluctuating account, past adjustment, guarantee to a partner, goodwill methods, accumulated profit and losses) taught in the class.
II. Write all the theory related to the topic (rules of partnership deed, provisions of IOC, goodwill its classification and its factors)
III. Comprehensive project work

SUB - BUSINESS STUDIES   Class - XII

1. Write the answers of the questions given to you in class.
2. Project work-principles of management and business environment.
3. Make notes in your note book of chapter 1 & 2.