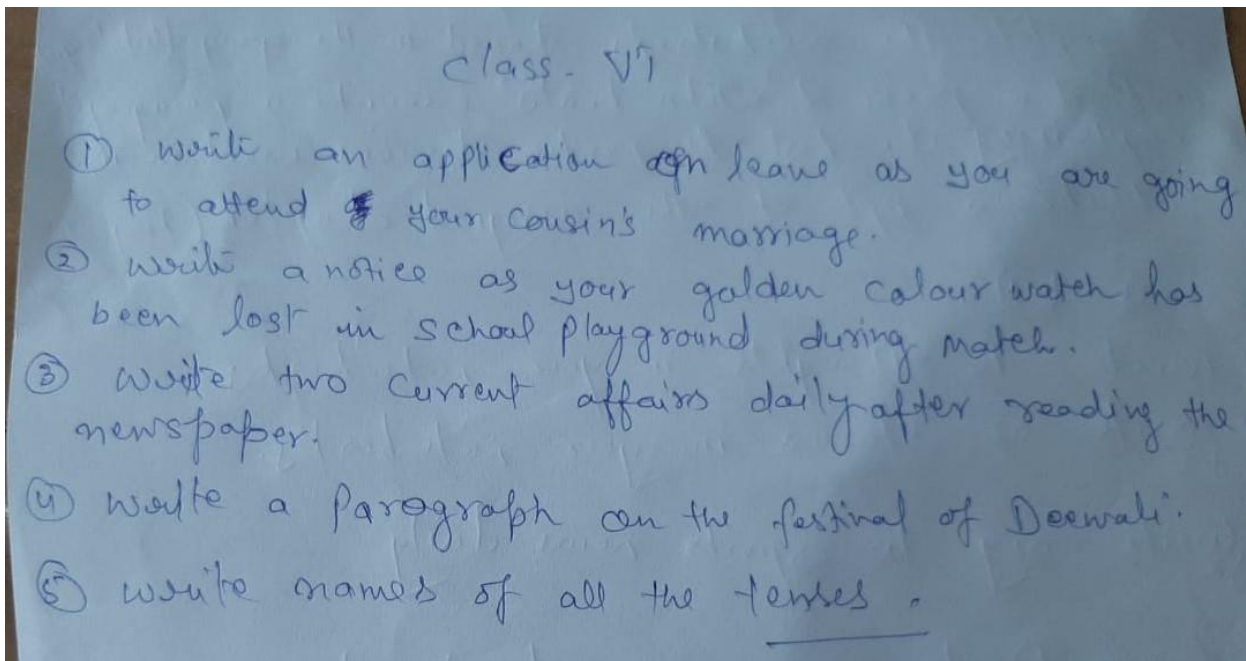


KV No.2 AFS Chakeri Kanpur
Holiday Homework
Class VI

Subject: Maths

1. Do all questions of exercises no. 1.2
2. Do all questions of exercises no. 2.2
3. Do
 - (a) Questions no. 3, 4, 6, 7, 8, 9, 10 and 11 of exercises no 3.2
 - (b) Questions no. 3 and 4 of exercises no. 3.3
 - (c) all questions of exercises no. 3.7
4. Do exercise no 5.2
5. Do exercises no 6.2 and 6.3
6. Learn multiplication Table up to 20.

Subject: English



Subject: Science

Read chapter 10, 11 & 12.

Do activity 5, (page no. 110, NCERT).

Do activity 4, (page no. 120, NCERT).

Do following questions in Science notebook.

Define following terms :-

Motion (b) Periodic motion (c) Rectilinear motion (d) Luminous object (e)

Opaque object

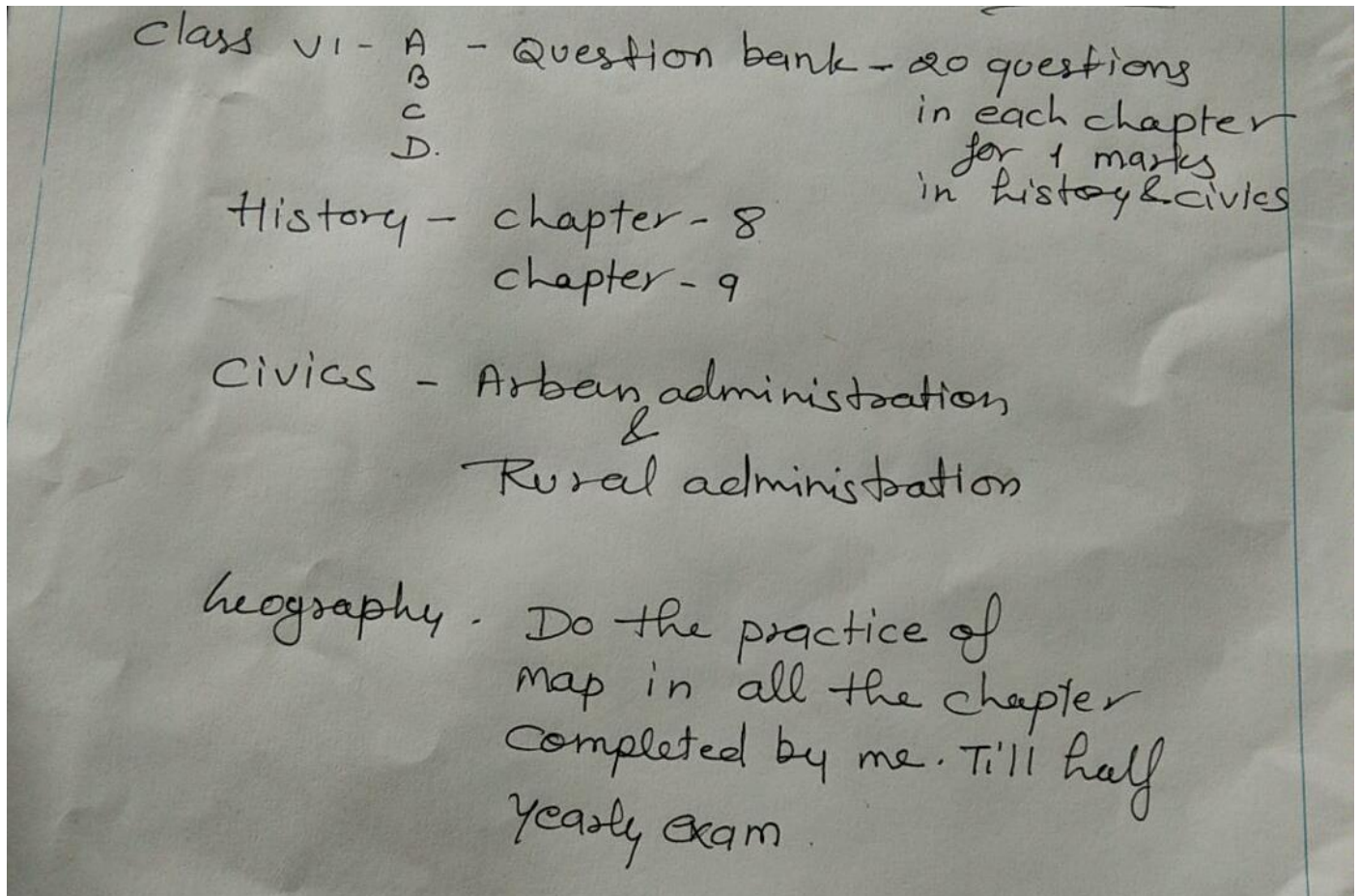
(f) Translucent object (h) Switch (i) Conductors (j) Insulators (k) Transparent

2. Differentiate between :-

- (a) Periodic and Rectilinear motion
- (b) Luminous and Non luminous object
- (c) Opaque, transparent and translucent object
- (d) Conductor and insulator

[write at least 2 differences with one example of each with in a table]

Subject: SST



Class VII

Subject: Science

1) Learn Chapter -11

2) Prepare a quiz consisting of 50 questions. All the questions must be prepared from the science book of class VII.

3) Make a list of 10 activities you must do to keep your environment clean and healthy.

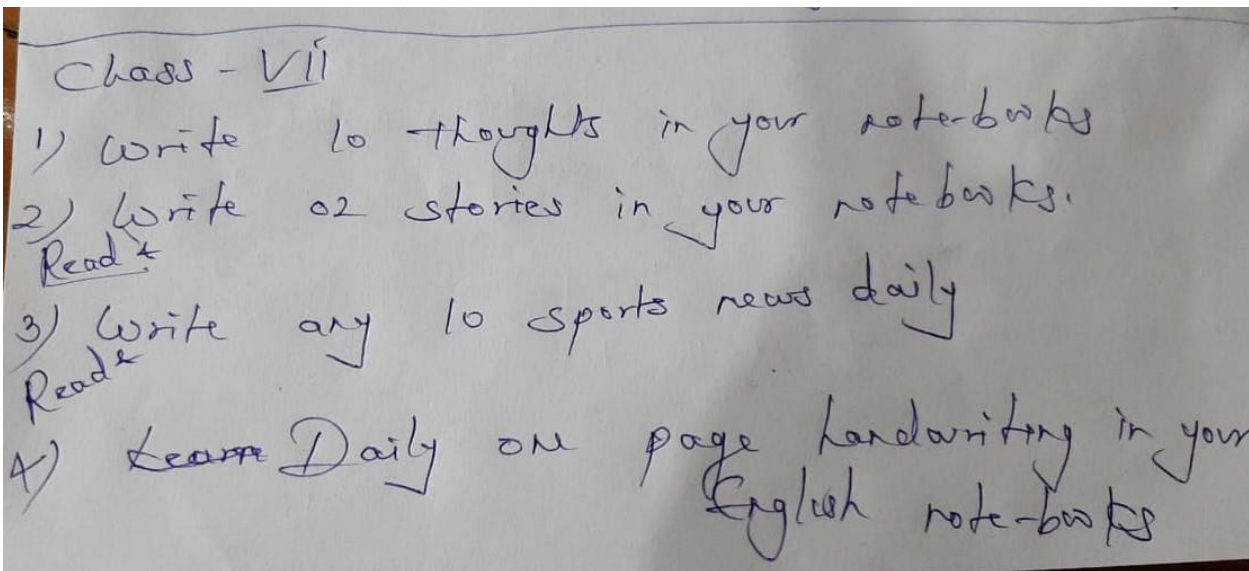
4) **Project**- Make an electric circuit consisting of a bulb , switch, battery and nail.

5) Prepare a toy which can be used as helping aid in science. Write-up , photograph and video can be prepared.

SUBJECT: SOCIAL SCIENCE

1. Make 5-5 MCQs from your textbook (History: L-4,5&6 ; Geography: L-4,5&6 ; Civics: L-4,5&6)
2. Read and Write the Summary of the following Chapter (History: L-5&6 ; Geography: L-5,6&7 ; Civics: L-4,5&6)
3. Long Answer Type Questions: Learn and write- (5-5 Question and Answer History: L-5&6 ; Geography: L-5&6 ; Civics: L-5&6)
4. Define: Weather, Climate, Zabt, Gagir, Manuscript.
5. Map Skill:
 - I. Locate on an outline map of India main seaports and airports.
 - II. Locate on a Political map of India states and their capitals.

Subject: English



Subject: Maths

- 1-Solve H Y question paper
- 2- Solve minimum 5 question of each exercise chapter 1 to 8
- 3- Make a activity file in file fill all formulas Roman number
- 4 -Make one project of any topic (chart,model, CD)
- 5 Dowork datewise

Subject:SST

Geography : Make 20 (1 mark) questions along with their answers from Chapter 1 to Chapter 5

Political Science : Make 20 (1 mark) questions along with their answers from Chapter 1 to Chapter 5

History : Make 20 (1 mark) questions along with their answers from Chapter 1 to Chapter 4

Class VIII

Subject: Maths

1. Learn and write squares of given numbers (1 to 30).
2. Learn and write cubes of given numbers (1 to 30).
3. Do questions 2 ,4 from ex 1.1 and Q 4, 5 from ex 1.2.
4. Do Q 6, 7, 8 from ex 2.3 and Q 2, 4 from ex 2.6.
5. Do Q 4, 5,,6 from ex 3.1 and Q 2, 3 from ex 3.2 also Q 2, 5, 8 from ex 3.3.
6. Do Q 1, 2 from ex 8.1 and Q 1, 4, 8 from ex 8.2 also Q 1,6, 10 from ex 8.3.
7. Do given activity .



ACTIVITY 4

To make the following shapes by paper folding and cutting.

(a) A kite

(b) A rhombus

Learning Objective : To understand the shape of a kite and that of a rhombus.

Pre-requisite : Familiarity with a quadrilateral and its parts.

Materials Required : Sheets of paper, a pair of scissors, a ruler and a pencil/pen.

Procedure : (a)

Step 1. Take a rectangular sheet of paper. [Fig. 4(a)].

Step 2. Fold it in such a way that one pair of opposite edges coincide with each other. [Fig. 4(b)]

Step 3. Fold it again so that the other pair of opposite edges overlap each other. Mark the creases [Fig. 4(c)].

Step 4. Unfold the fold of Step 3. [Fig. 4(d)].

Step 5. Name the vertices of the folded sheet as A, B, C and D. Point P is the mid point of side AD. [Fig. 4(e)]

Step 6. Mark a point Q on the side AD other than its mid point. Join QB and QC with the help of a ruler. [Fig. 4(f)].

Step 7. Cut along the sides QB and QC and unfold the cut out. Shape in Fig. 4(g) shape thus obtained is a kite BQCR.

Procedure : (b) Repeat Steps 1 to 5 as above.

Step 8. Join PB and PC with the help of ruler [Fig. 4(h)].

Step 9. Cut along the sides PB and PC and unfold the cut out. Shape thus obtained is a rhombus. PBCR [Fig. 4(i)].



Fig. 4(b)



Fig. 4(a)



Fig. 4(c)



Fig. 4(d)

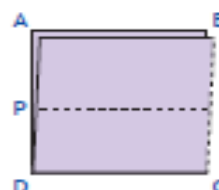


Fig. 4(e)

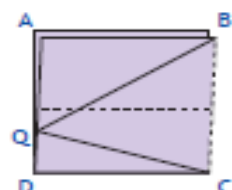


Fig. 4(f)

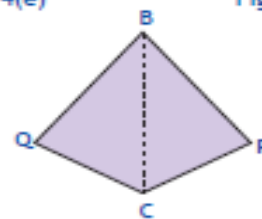


Fig. 4(g)

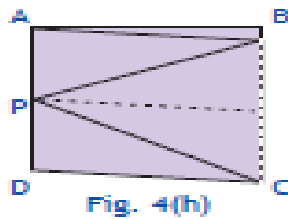


Fig. 4(h)

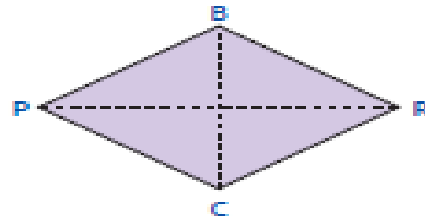
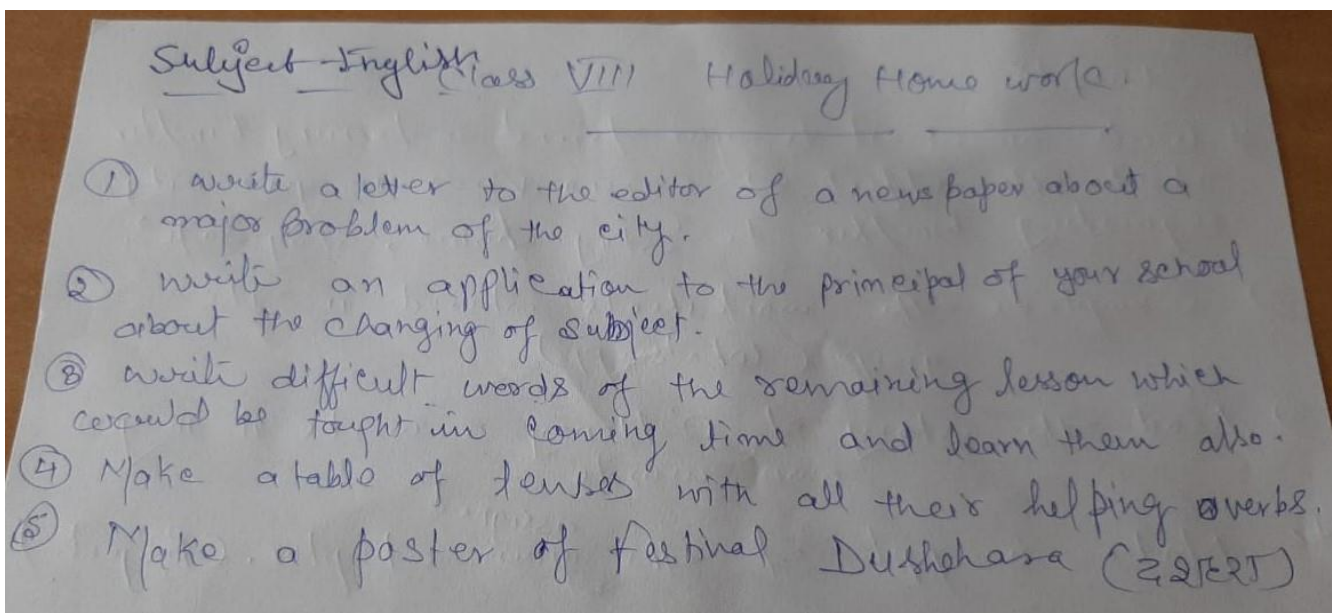


Fig. 4(i)

Observations :

- (i) Are all the sides of the kite obtained in Fig. 4(g) equal? (Yes / No)
- (ii) Are pairs of opposite sides equal? (Yes / No)
- (iii) Which pairs of adjacent sides are equal?
- (iv) Are all the sides of the rhombus equal? (Yes / No)
- (v) How a kite is different from a rhombus?

Subject:English



Subject : Science

1. Explain the process of photosynthesis with labelled diagram.
2. Differentiate in animal cell and Plant cell with labelled diagram.
3. Explain the following terms: a. weedicides b. Antibiotics c. Chemical effect of electric current d. Black gold e. Rolling friction f. Carbonisation g. Destructive distillation
4. Why CNG IS called clean fuel?
5. Why does charcoal not produced flame?
6. what is deforestation? What is its effects?
7. Explain modern methods of irrigation with labelled diagram?
8. Why is it necessary to dry grains before storing them ?
9. Explain the various types of bacteria with labelled diagram.
10. What are biodegradable and non biodegradable materials?
Explain with examples.
11. Draw the labelled coloured diagrams of the followings-
 - a. Various types of cells showing different shapes & sizes.
 - b. Various zones of burning candle
 - c. Modern irrigation systems

d. Any four agricultural Implements.

12. Prepare a chapterwise question bank in which following types of

Questions must be involved:

a. MCQ Types- 5 Questions from each chapter

b. VSA Types - 5 Questions from each chapter

C. S A Types- 2 Questions from each chapter

Class IX

Subject: Maths

1. Practice all theorems from chapter 1 to chapter 8.

2. Collect sample papers from net and solve them from above chapters.

3. Solve the exercises from above given chapters (at least 2 questions from each exercise).

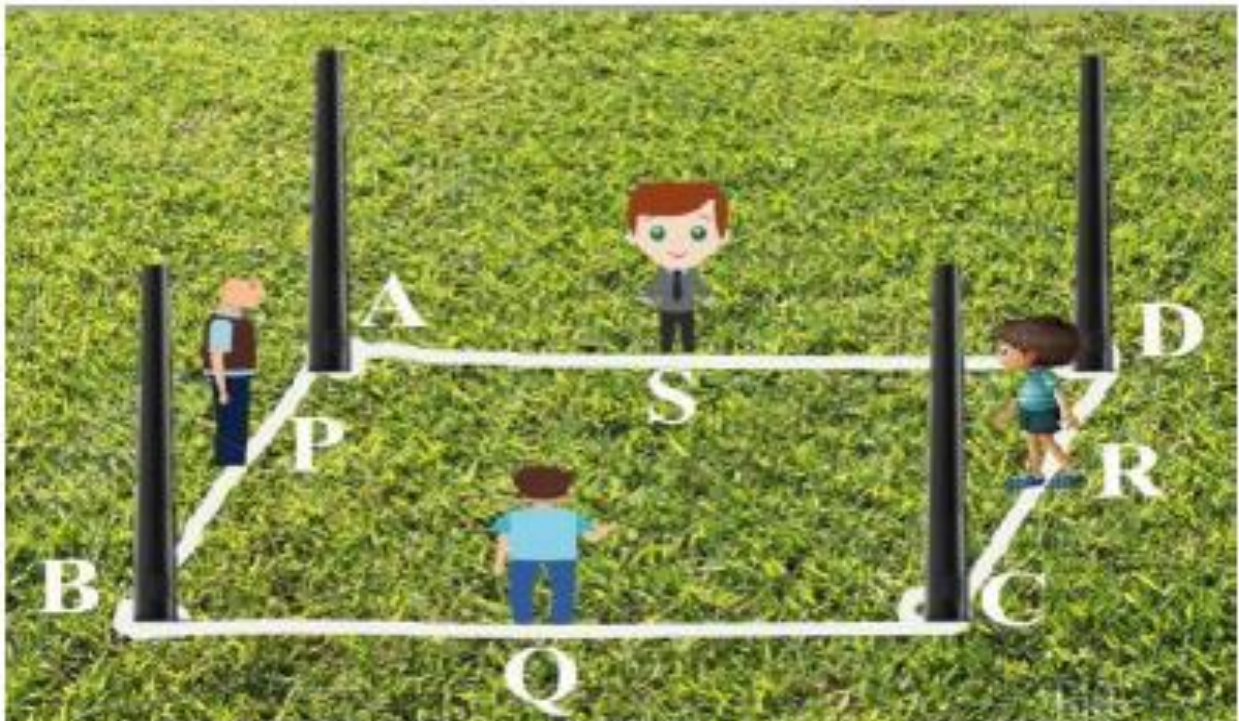
4. Do lab activities for class 9th in practical file (I will send activities later to your groups).

5. Make 1 PISA question from above given chapters.

1. Practice all the theorems you have learnt.
2. Draw the graph of the following equations.
 - a) $x=4y$ b) $y=3x+5$ c) $y-2=0$ d) $x=-5$
3. Solve the exercises from your textbook :Chapter 8; Quadrilaterals
4. Draw a circle and show the following in it.
 - a) an arc b) a segment c) a chord d) a sector

CCT QUESTIONS

Question 1: *Description of Item:* In a village, four boys were playing in a ground. They planned to devise a game using geometrical concepts. Ramesh took the lead and planned in the following manner: Four poles were marked in the ground as A, B, C, D. With the



help of a rope, the poles were joined to form a quadrilateral. Now, Ramesh selected four boys such as P, Q, R and S and placed in the mid-points of the rope paths... After making this arrangement, they started playing throw ball in the order from P to Q; Q to R; R to S and finally from S to P.

On the basis of this arrangement, Ramesh asks the following questions to the other boys:

i) Which geometrical shape is generated by PQRS?

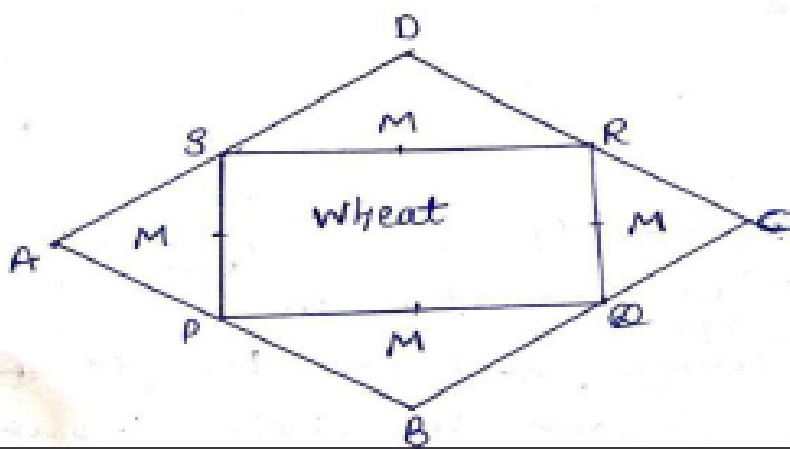
- (a) Square
- (b) Rhombus
- (c) Rectangle
- (d) Parallelogram

(ii) Justify the shape generated by PQRS with a geometrical principle.

(iii) What shape is expected by the join of PQRS if ABCD forms a rhombus?

Question 2: CROP FIELD : A farmer has a field ABCD. Field ABCD is in the shape of rhombus and P, Q, R and S are the mid-points of the sides AB, BC, CD and DA respectively. The farmer wants to crop wheat in area PQRS and mustard crop in rest of the region.

1. Which shape is formed with the region of wheat crop?
2. The farmer wants to fence the field with the wire, and then what is the length of wire required if side of rhombus is 12m.
3. Find the diagonal AC if the side of rhombus field 12m and diagonal BD is 20m?
4. What is the use of mustard crop in our daily life?

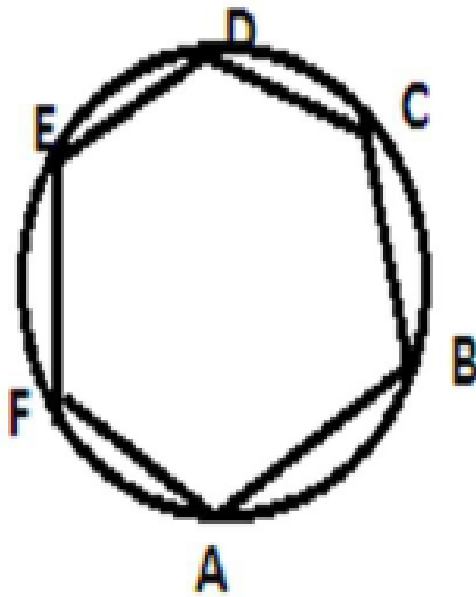


Question 3: 1. Three scouts Razat, Rohit, and Ramit in the cultural show with three stringed balloons with a message 'stop child labour', keeping themselves on the boundary of circle of radius 25cm. Find the distance between Razat and Ramit when distance between Razat and Rohit and Rohit and Ramit is 30cm.

- A. 24 B. 48 C. 36 D. 12

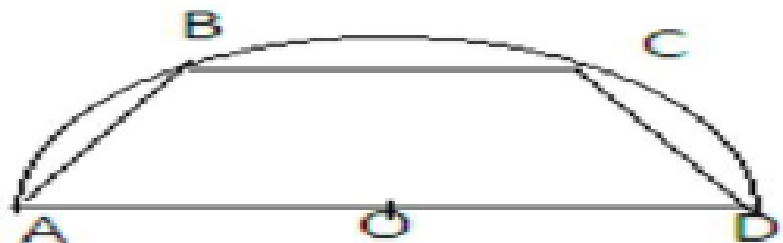
Question 4: A small cottage industry employing people from a nearby slum area prepare round table clothes having six equal design in the six segment formed by equal chords AB , BC , CD , DE , EF and AF . If O is the centre of round table (see figure). Find $\angle AEB$ and $\angle AFB$.

- A. 60° Both
- B. 90° Both
- C. 30° Both
- D. 45° Both



Question 5: In this figure $ABCD$ is a quadrilateral whose vertices are on a semicircle such that $AB=BC=CD=10\text{cm}$ and AD is a diameter of circle having centre at O . Find the perimeter of the quadrilateral $ABCD$. A. 30

- B. 100
- C. 50
- D. 70



Question 6:

Dinesh has a regular hexagonal shaped plot in a corner of village Ramgarh. Each side of the hexagonal plot is 10 m. He wants to fill the hexagonal shaped plot by equilateral triangles shaped tiles.



1. How many equilateral triangles of side 10 m are there in the hexagonal plot?

- A. 2 B. 4 C. 6 D. 8

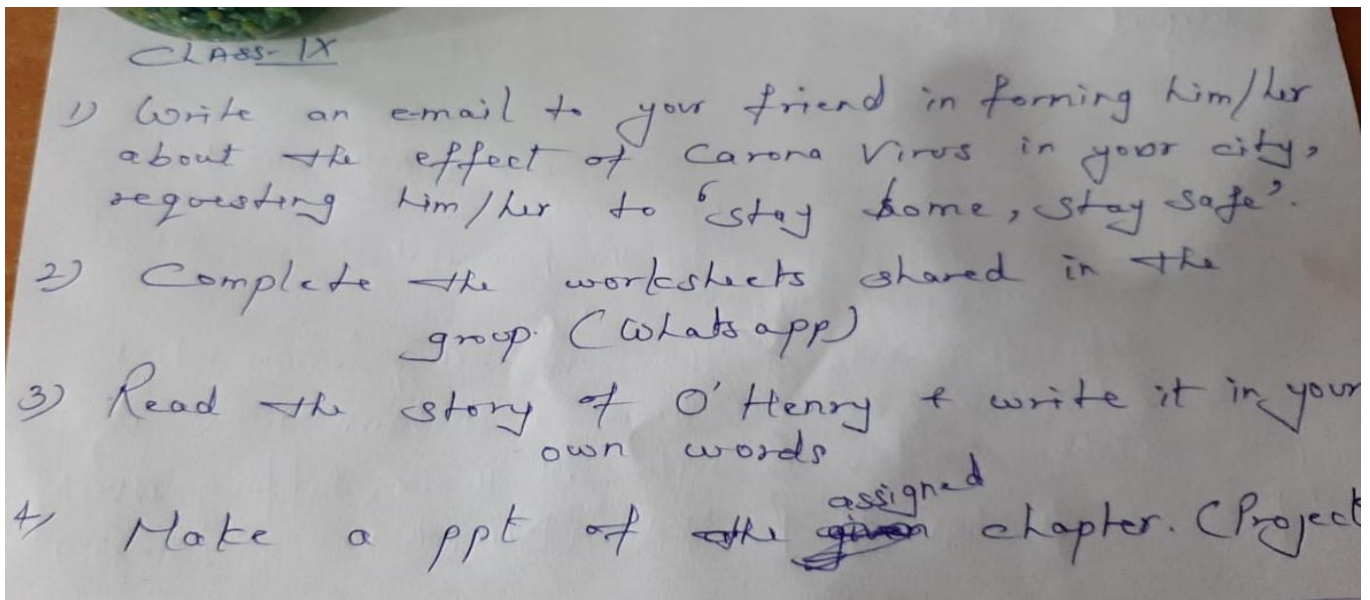
2. What is the area of the hexagonal shaped plot?

- A. $100\sqrt{3}$ m² B. $150\sqrt{3}$ m² C. $200\sqrt{3}$ m² D. $250\sqrt{3}$ m²

Q 3. If each side of equilateral triangular shaped tile is 2 m, then what is the area of each tile?

Q 4. What is the number of equilateral triangular tiles of side 2 m that is required to fill the hexagonal plot?

- A. 150
B. 200
C. 250
D. 300



Subject: Science

1. Make a list of elements , atomic no. , symbol (1 to 20)
2. Derive all the mathematical expressions of chapters force and laws of motion , gravitation,
3. Make a power point presentation on chapter work and energy.
4. Practice diagrams- plant and animal cell, fractional distillation,
5. Solved PT2 and PT1 papers

Class X

Subject: SST

- Read and Write the summary of the following Chapter:-

History

1. Ch.1 The Rise of Nationalism in Europe
2. Ch.3 Nationalism in India
3. Ch.4 The Making of Global World

Geography

1. Ch.1 Resources and Development
2. Ch.2 Agriculture
3. Ch.3 Manufacturing Industries
4. Ch.7 Lifelines of Indian Economy

Political Science

1. Ch.1 Power Sharing
2. Ch.2 Federalism
3. Ch.6 Political Party
4. Ch.7 Outcomes of Democracy

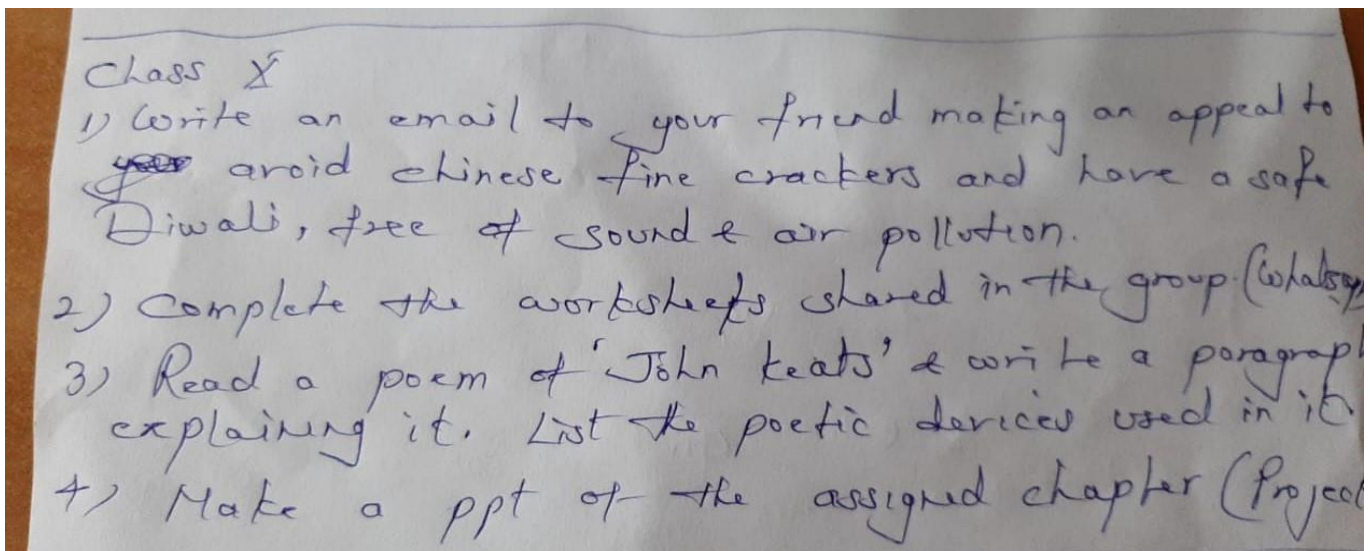
Economics

1. Ch.1 Development
 2. Ch.2 Sectors of the Indian Economy
 3. Ch.3 Money and Credit
- Solve any three Sample Paper with Map.
 - Make 10-10 MCQs from your textbook (History: L-1,3&4 ; Geography: L-1,4,6&7 ; Political Science: L-1,2&6 ; Economics: L-1,2&3)
 - Map Skill :
 - A. Locate the following on an Outline Map of India
 1. Congress Session : Calcutta (Sept. 1920), Nagpur (Dec. 1920), Madras (1927), Lahore (1929).
 2. Champaran (Bihar), Kheda, Chauri-Chaura, Dandi.
 - B. Locate the following on an Outline Map of India
 1. Major Soil Types
 2. Dam – Hirakund, Sardar Sarovar, Tehri, Salal

Project Work

- ❖ Ch. 5 Popular Struggles and Movements

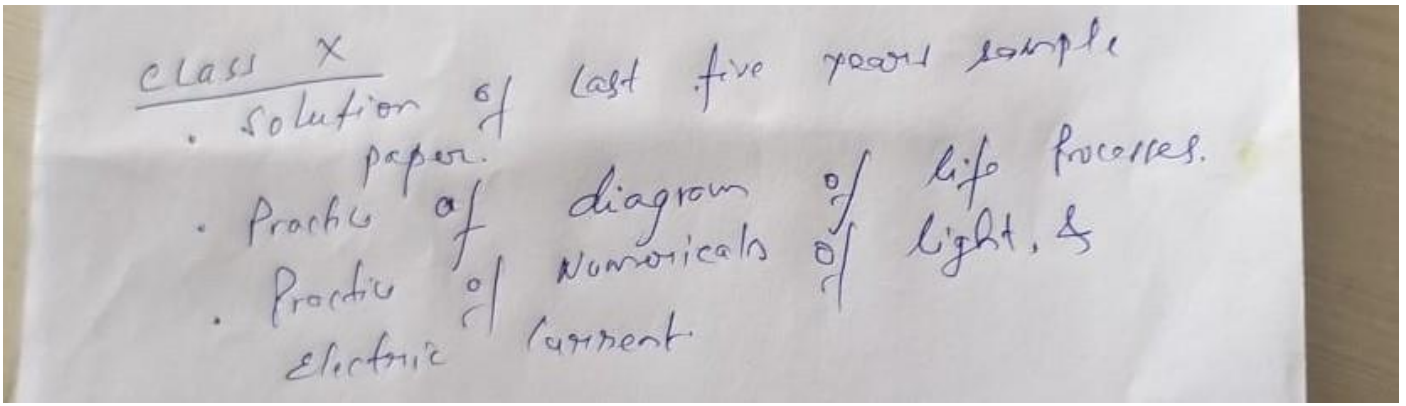
Subject: English



Subject: Science

1. SOLVE Q. NO. 20 TO 23 AGAIN WRITING IDEAL ANSWERS WITH QUESTIONS.
2. WRITE 5 MCQs EACH FROM EACH PRACTICAL WITH ANSWERS.
3. DRAW AND PRACTICE NEAT & LABELLED DIAGRAM OF-
 - A) RAY DIAGRAMS OF CONVEX MIRROR
 - B) RAY DIAGRAMS OF CONCAVE LENS
 - C) REPRODUCTIVE SYSTEM IN HUMAN FEMALE
 - D) REPRODUCTIVE SYSTEM IN HUMAN MALE
 - E) DOUBLE FERTILISATION IN FLOWER
4. WRITE & PREPARE SYMPOSIUM OF 100-150 WORDS UNDER SUB-HEADINGS (INTRODUCTION, IMPORTANT FEATURES, FAMOUS PERSONALITIES ASSOCIATED WITH MOVEMENT, RESULTS ETC.) :
 - A) GANGA ACTION PLAN (ROLL NO.1 TO 10)
 - B) CHIPKO MOVEMENT (ROLL NO. 11 TO 20)
 - C) NARMADA BACHAO ANDOLAN (ROLL NO. 21 TO 30)
 - D) TEHRI DAM ANDOLAN (ROLL NO.31 TO 40)

RAIN WATER HARVESTING(ROLL NO.41 TO LAST-DEFINITION, TYPES WITH EXAMPLES))

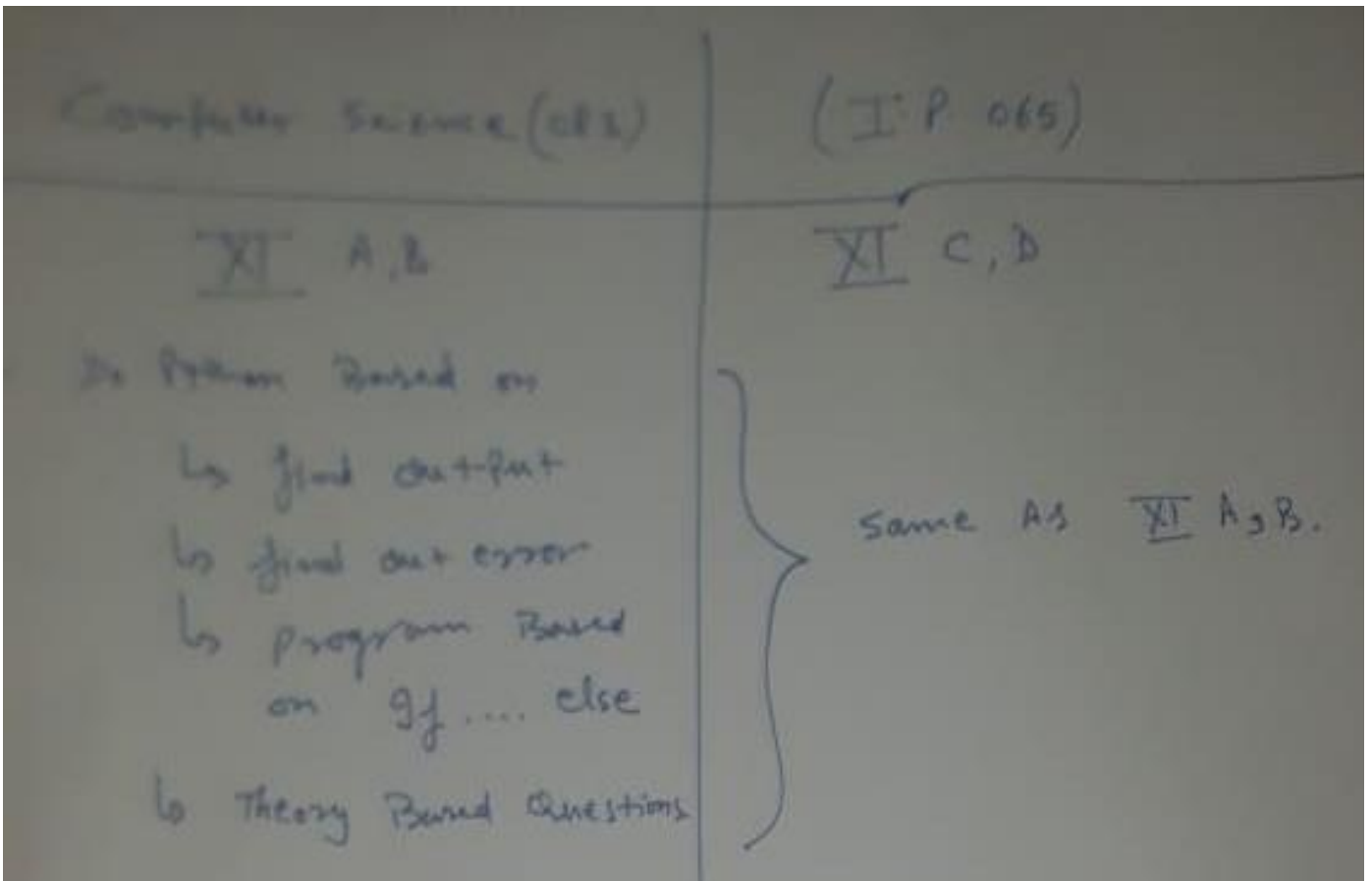


Subject: Maths

1. Practice all the theorems you have learnt.
2. Collect previous year question papers and solve those you have learnt.
3. Solve the exercises from your textbook : Chapter 10; Circles.
4. Solve the problems of Height and Distance (Application of Trigonometry).
5. Lab Activity: Distance formula from Coordinate Geometry using Graph Paper.

Class XI

Subject: Computer Science/IP



Subject -Chemistry

XI-A/C:- 1)Learn chapter from 1to 6 for Half Yearly exam .

2)Do the given questions.

Assignment Class –XI

1. What is the number of significant figures in 0.00368 ?
2. If the density of methanol is 0.793 Kg L⁻¹ , what is its volume needed for making 2.5 L of its 0.25 M solution ?
3. Define – Molarity , Molality ,Mole fraction ,Limiting reagent , Significant figure
4. What is S.I. unit of Luminous intensity ?
5. How many moles of methane are required to produce 22g of CO₂ after combustion ?
6. Explain-
 - i)Law of definite proportion
 - ii)Avogadro Law
 - iii)Mole
7. The density of 3M solution of NaCl is 1.25 g/ml . Calculate molality of the solution .
8. Calcium carbonate reacts with aqueous HCl to give CaCl₂ and CO₂ according to the reaction
$$\text{CaCO}_3 + 2 \text{HCl} \rightarrow \text{CaCl}_2 + \text{CO}_2 + \text{H}_2\text{O}$$

What mass of CaCO₃ is required to react completely with 25 ml of 0.75 M HCl ?
9. Determine the molecular formula of an oxide of iron in which the mass percent of iron and oxygen are 69.9 and 30.1 respectively.
10. Calculate the radius of Bohr's first orbit for hydrogen atom.
11. Calculate the wavelength of an electron moving with a velocity of $2.05 \times 10^7 \text{ m/s}$.
12. What are the limitations of Bohr's model?
13. Explain-
 - i) Aufbau Principal
 - ii) Pauli Exclusion principal
 - iii) Hund' s rule
14. What is the number of photons of light with a wavelength of 4000 pm that provide 1 Joule of energy?
15. How many electrons are present in all subshells with $n+l=5$?
16. Write the electronic configuration of-
 - i)Cu⁺
 - ii) Fe³⁺
 - iii) Zn²⁺
17. What is the basic theme of organization in the periodic table?
18. What is the basic difference between the term electron gain enthalpy and electronegativity.
19. Write the general outer electronic configuration of s,p,d,f block elements.
20. In terms of period and group where would you locate the elements with Z=114?
21. Give reasons-
 - i)Cations are smaller than parent atom
 - ii)First ionization enthalpy of sodium is lower than that of Mg but its second ionization enthalpy is higher than that of Mg .

- iii) Electron gain enthalpy of fluorine is less negative as compared to that of chlorine .
 iv) Nitrogen has higher first ionization enthalpy as compared to oxygen .
22. Which out of NH_3 and NF_3 has higher dipole moment and why?
 23. Write the resonating structures of CO_2 , NO_2^- , O_3 , CO_3^{2-} .
 24. Compare the relative stabilities of N_2^+ and O_2^- and comment on their magnetic behavior .
 25. Distinguish between sigma and pi bond .
 26. Using VSEPR theory , explain the shapes of –
 i) NH_3 II) H_2O III) SF_4 IV) ClF_3 V) AsF_5 VI) PCl_5 vii) SF_4
 27. Write the important conditions required for the linear combination of atomic orbitals to form molecular orbitals .
 28. What is meant by the term bond order ? Calculate the bond order of N_2 , O_2 and Be_2 .
 29. Using $PV = nRT$, show that at a given temperature density of a gas is proportional to gas pressure P .
 30. Define Dalton's law of partial pressure .
 31. Define –
 i) Enthalpy ii) Entropy iii) Gibbs energy iv) Closed system v) Intensive properties
 vi) First law of Thermodynamics
 32. Under what condition a gas deviates from an ideal behaviour .
 33. What will be the minimum pressure required to compress 500 ml of air at 1 bar to 200ml at 303 K ?
 34. Density of a gas is found to be 5.46 g/dm^3 at 27°C and at 2 bar pressure .What will be its density at STP ?
 35. Define –
 i) Boyle point ii) Viscosity iii) Critical temperature iv) Ideal gas v) Vander Waal ' s constant
 36. Calculate the number of KJ of heat necessary to raise the temperature of 60 g of Al from 303K to 313 K. Molar heat capacity of Al is 24 J/mol/K .
 37. Define Hess's law of constant heat summation. Calculate the standard enthalpy of formation of $\text{CS}_2(\text{l})$ from following data-
 $\text{CS}_2 + 3\text{O}_2 \rightarrow \text{CO}_2 + 2\text{SO}_2 \quad \Delta_r H = -1108.76 \text{ KJ mol}^{-1}$
 $\text{C} + \text{O}_2 \rightarrow \text{CO}_2 \quad \Delta H = -393.3 \text{ KJ mol}^{-1}$
 $\text{S} + \text{O}_2 \rightarrow \text{SO}_2 \quad \Delta H = -293.72 \text{ KJ mol}^{-1}$
 38. Derive the relation between K_p and K_c .

Subject: Political Sc.

BOOK 1: Indian Constitution at Work

A] Chapters- Legislature, Executive and Judiciary

> All students have to make Make 04 questions from above chapters in Long answers (120 words)

B. Study all the cartoons given in text book

C. Study all the box items given in text book

BOOK 2: Political Theory

A] Chapters- Political theory and Freedom All students have to make 04 questions from above chapters in Long answers (120 words)

B- Write the CW given in PPTs during online classes

Subject: **Economics**

Differentiate between the following:

Census & Sample

Primary & Secondary Data

Direct Personal Interview & Indirect Personal Interview

Published Source & Unpublished source of data

What are the Types of Classification

What are the Types of Series

What are the degrees of Elasticity of Demand

Write 10 Numerical Questions of methods to measure Elasticity of Demand

Concept of Consumer's Equilibrium in case of 2 commodities

Concept of Consumer's Equilibrium in case of Indifference Curve Approach

Subject: Physics

Chapter1

1.Law of conservation of linear momentum

2.Law of conservation of angular momentum

3.Law of conservation of energy

Chapter2

1.Fundamental Units.

2.Accuracy and precisions

3.Significant figures.

4.dimensions of physical quantity and dimension analysis.

**Do at least 3 equation based on above topics*

Chapter3

1.Distance, displacement, speed, velocity, instantaneous velocity, acceleration, uniform and Nonuniform acceleration. (write & learn definition)

2.Uniform and nonuniform motion.

3.Position time graph velocity time graph.

4.Equation of motion in kinematics.

(a)integration method

(b)graphical method

**Derivation*

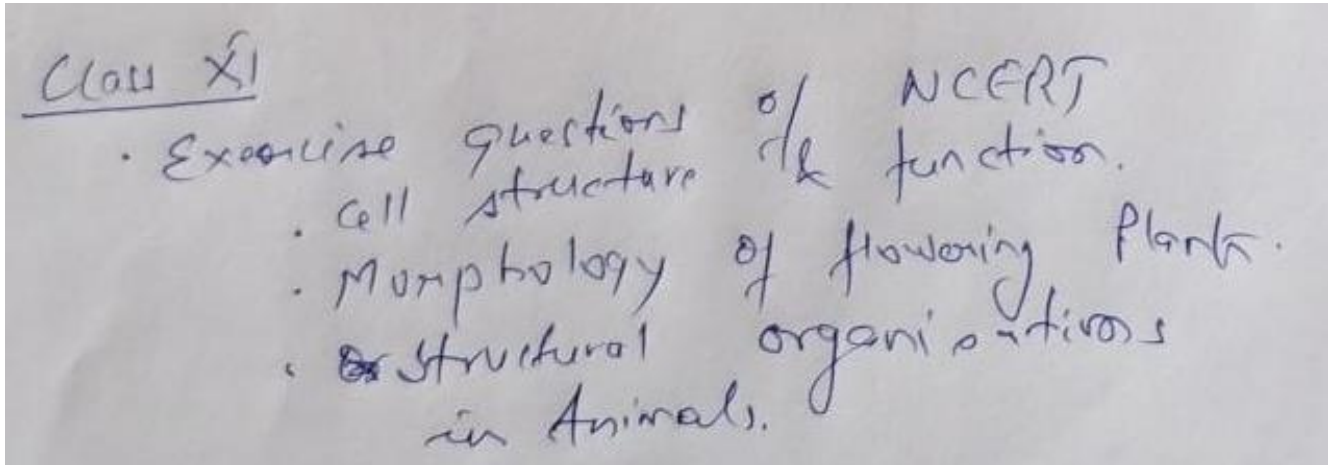
Subject: - ACCOUNTANCY

- PROJECT WORK: - 10 MARKS
PETTY CASH BOOK
- Prepare 10 question of 1 mark from each chapter
- Solve all the questions related to Cash Book Subsidiary Book and Depreciation
- Prepare for viva (10 marks)

Subject: - BUSINESS STUDIES

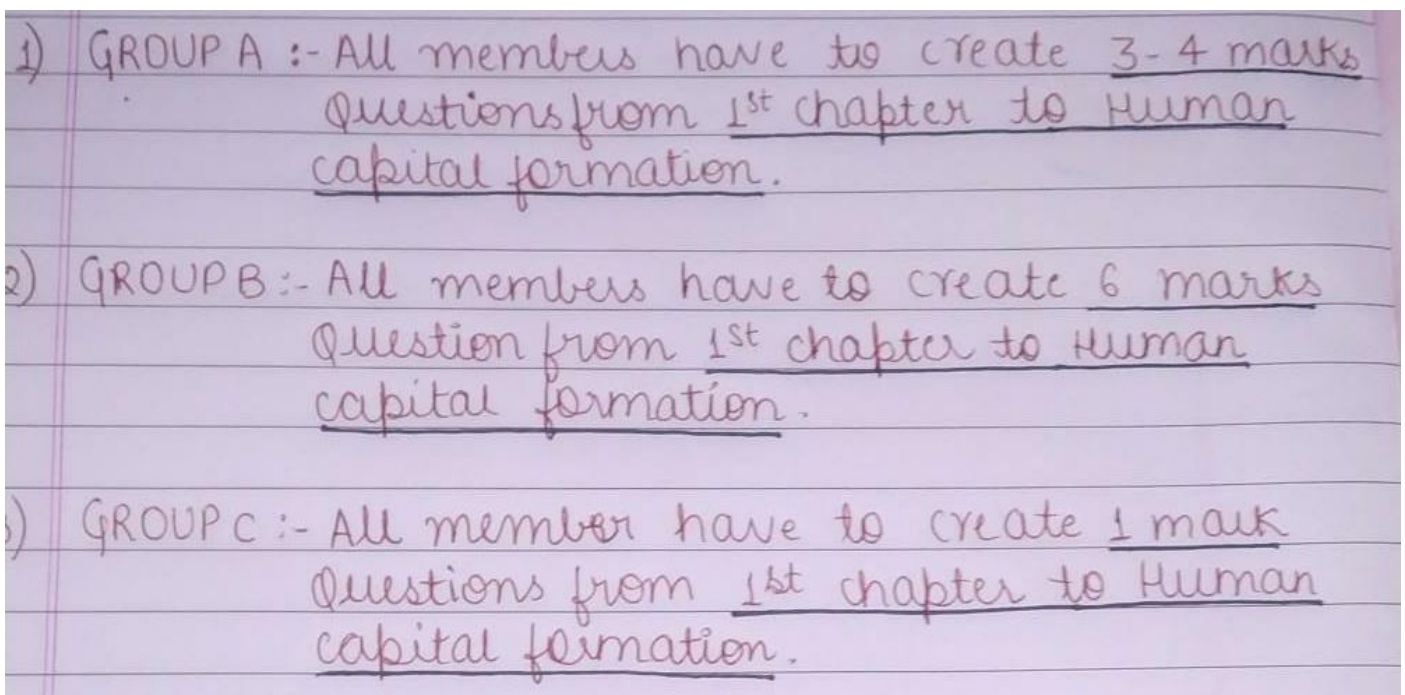
- PROJECT WORK: - 10 MARKS
OR ANY OTHER TOPIC RELATED WITH BUSINESS
- Prepare for viva (10 marks)
- Prepare 10 question of 1 mark from each chapter
- Learn all the question answer

Subject: Biology



Class XII

Subject: Economics

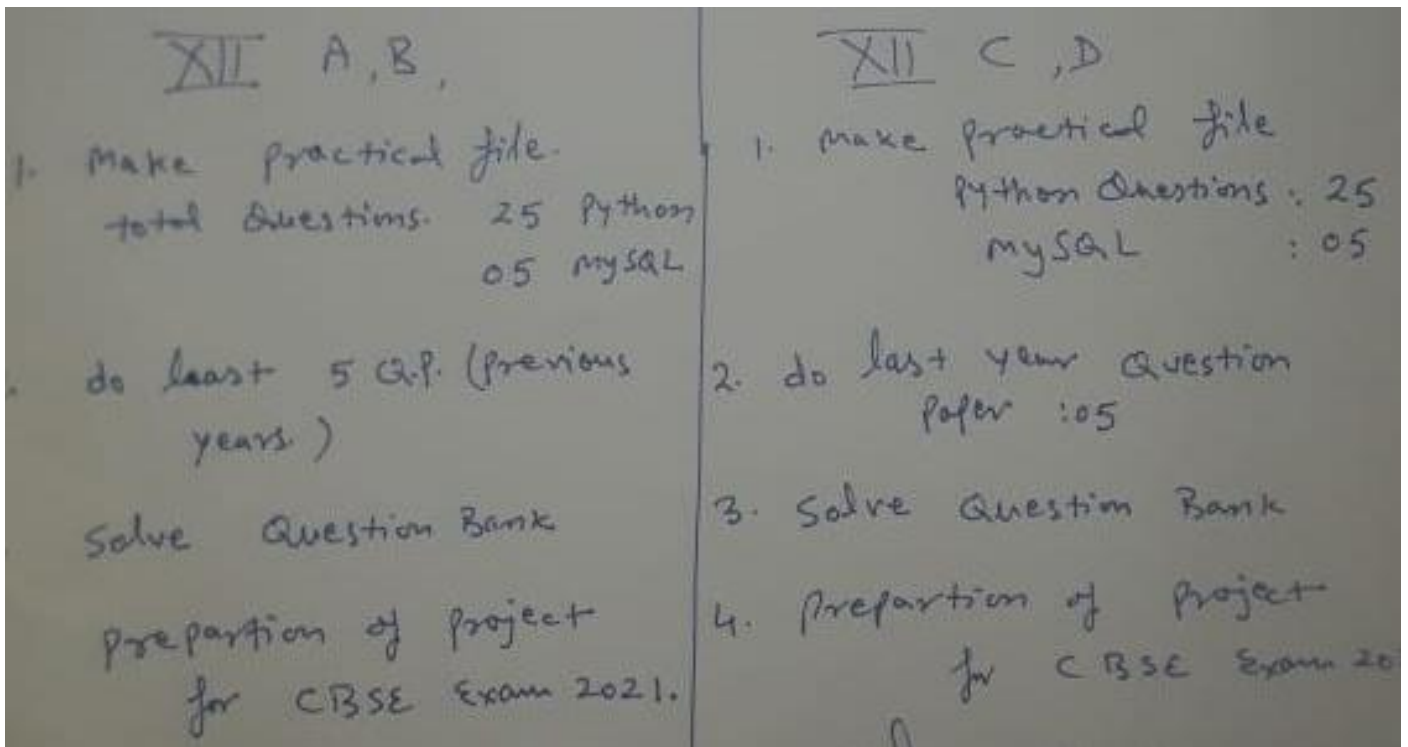


Subject: Chemeistry

1) Learn chapter from 1 to 12 .

2) Do NCERT exercise of chapter Aldehydes ,ketones and Carboxylic acids

Subject: Computer Science/IP



Subject: Political Science

BOOK 1: POLITICS IN INDIA SINCE INDEPENDENCE

A] Chapter 01-04 > All students have to make 04 questions from each chapter in short answer (50 words)

Make 04 questions from following topics in Long (120 words)

B. India –Russia Relations

C. India – Israel Relations

D. Forms of Party System and Party System in India

E- Chapter 1-5 Study all the cartoons

F. Chapter 1-5 Study all the Map Works given in Class Work

BOOK 2: CONTEMPORARY WORLD POLITICS

A] Chapter 01-06 > All students have to make 03 questions from each chapter in short answers (50 words)

B} Make 04 questions from each chapter in Long (120 words)

BRICS

WHO

UNESCO

C- Chapter 1-9 Study all the cartoons

D. Chapter 1-9 Study all the Map Works given in Class Work

E- Full Question answers of Globalisation

Subject: Accountancy

__ COMPREHENSIVE PROJECT WORK (IN FILE).

_ VALUE BASED QUESTIONS OF CHAPTE: 1, 2, 3, 4 (IN HOME WORK COPY)

_ EVALUATION QUESTIONS (MISSING FIGURES) OF CHAPTER: 1, 2, 3, 4. (IN HOME WORK COPY).

_ BRING 2 COMPANIES FINANCIAL STATEMENT OF FINANCIAL YEAR 2017-18.

Subject: BUSINESS STUDIES:

_ PROJECT WORK ON CHAPTER PRINCIPLES OF MANAGEMENT (IN FILE).

_ CASE STUDIES ON CHAPTER: 1, 2, 3, 4. (IN HOME WORK COPY).

_ LEARN ALL THE TOPICS OF CHAPTERS: 1, 2, 3, 4.

_ BRING 4 PRVIOUS YEARS AISSCE BOARD PAPERS OF BUSINESS STUDIES.

Subject: Physics

