- 6- If the zeros of polynomial $x^3 ax^2 + bx c$ are in AP then show that $2a^3 9ab + 27c = 0$.
- 7- If 1 and -1 are zeros of polynomial Lx⁴+ Mx³ + Nx² + Rx + P, show that L + N + P = M + R = 0.
- 8- Prove that: √14 is an irrational number.
- 9- Floor of a room is to be fitted with square marble tiles of the largest possible size. The size of the room is 10 m × 7 m. What should be the size of tiles required that has to be cut and how many such tiles are required?
- 10- Two zeros of cubic polynomial $ax^3 + 3x^2 bx 6$ are -1 and -2. Find the third zero and value of a and b.
- 11- If -4 is a root of the quadratic equation $x^2 + px 4 = 0$ and $x^2 + px + k = 0$ has equal roots, find the value of k.
- 12- For what value of k, does the equation $(k + 1) x^2 2 (k 1) x + 1 = 0$ has real and equal roots?
- 13- For what value of k, the roots of the quadratic equation $3x^2 + 2kx + 27 = 0$ are real?
- 14- A motor boat whose speed is 18 km/h in still water, takes 1 hour more to go 24 km upstream than to return downstream to the same spot. Find the speed of the stream.
- 15- At 't' minutes past 2pm, the time needed by the minute hand of a clock to show 3 pm was found to be 3 minutes less than $\frac{t'}{4}$ minutes. Find 't'?

Note: Revise all taught syllabus and do above given questions in fair notebook.

COMPUTER (CBSE)

- 1- What are the advantages of the ability to Work Independently?
- 2- Name the Stress causal agents.
- 3- State any two purposes of using Templates in a word document.
- 4- In which situations Online shopping could be useful? Write any two popular E-commerce websites.
- 5- What is the difference between styles and templates?

COMPUTER (UPBOARD)

- 1- Write a program to Factorial of N number in 'c' and also draw the flow chart.
- 2- Briefly explain the difference the medium used in data communication.
- 3- What is the basic communication model? Draw the block diagram also.
- 4- Explain the following-
 - (a) Analog Communication System
 - (b) Digital Communication System

PHYSICAL EDUCATION (Physical Activity Trainer)

- 1- Prepare a chart on difference between assessment and evaluation.
- 2- Write a paragraph on importance of free play students life.
- 3- Write an essay on uses of computer in daily life.
- 4- Draw a flow chart file and folder.



Note: 1- All the written work is to be done in the fair note book.

2-Prepare taught topics in all subject for test just on reopening of the school.

हिन्दी— (CBSE)

बंस कर्मचारी के अशिष्ट व्यवहार की शिकायत करते हुए परिवहन विभाग के क्षेत्रीय अधिकारी को ई-मेल लिखिए। 'गीता गारमेंट प्राइवेट लिमिटेड' कम्पनी को सहायक प्रबंधक की आवश्यकता

हैं उक्त पद हेतू आवेदन पत्र प्रेषित करते हुए स्व-वृत्त लेखन कीजिए।

हिन्दी— (UP Board)

गदय एवं पदय साहित्य का इतिहासू कंठस्थ कीजिए।

'बेरोजगारी- एक वैश्विक समस्या' विषय पर निबंध लिखिए।

ENGLISH-

You recently visited a cricket stadium to watch your favourite team play. Write a descriptive paragraph: adding the following points-Name, location aspects, atmosphere: sights, sounds, purpose

and importance.

- Write a former letter, you are Samarth / Sonal Mishra, a resident of C-123, Janakpuri, New Delhi. You are a regular runner and when you go for your practice runs early in the morning, you have to face the menace of street dogs. Write a letter to the editor of a local news paper, on this issue.
- 3-**Exercises on Determiners-**Pg. 266 & 267 Ex. 10 & 11 (CBSE Board) Pg. No.-309 & 310 Ex.-6 to 10 (UP Board).

Modals-

Exercises 7 & 8 from Pg No. -159 onwards (CBSE Board)

Translation-

Exercise No. - 20-25 Pg No. - 20-25 (UP Board)

PHYSICS-

- An object 1 m tall is placed on the principle axis of a convex lens and its 40 cm tall image is formed on the screen placed at the distance of 70 cm from the object calculate the focal length of the lens.
- 2-An object 2 cm high is placed at the distance of 64 cm from a white screen on placing a convex lens at the distance of 32 cm from the object it is found at a distinct image of the object is formed on screen calculate the focal length of the lens and size of the image formed on screen.

Water has reflective index 1.33 and alcohol has reflective index 1.36 which of the two media is optically denser give reason for your answer. Draw a diagram to show the path of ray of light passing obliquely from the water to alcohol.

For the same angle of incidence the angle of reflection in three different media PQ and R are 45° degree 35° and 15° respectively in which medium will the speed of light be minimum give reason for

5-The power of lens used by a is -2.5 D what is the focal length and nature of the lens.

CHEMISTRY-

Aluminium is a reactive metal but is still used for packing food articles. Why?

Why is combustion reaction an oxidation reaction?

3-How will you test whether the gas evolved in a reaction is hvdrogen?

Why does not silver evolve hydrogen on reacting with dillute sulphuric acid?

What is observed when a solution of potassium iodide is added to a solution of lead nitrate?

Write two observations when lead nitrate is heated in a test tube.

BIOLOGY-

- Make a Mind Map Of Animal Hormones and Plant Hormones with their Functions on Chart Paper.
- 2-Prepare a puzzle games on the following topics: (a) Transportation (b) Excretion
- 3-Assume that you are a veterinary surgeon and you had removed a good length of the small intestine of a bear that was suffering from an intestinal tumor. Now, would you suggest a plant based or a meat based diet for the bear after its recovery? Give reason for vour answer.

Solve 10 Assertion Reason based questions on given topic Photosynthesis, Stomata, Human digestive system, human circulatory system, Nephron.

Why is it necessary to separate oxygenated and deoxygenated

blood in mammals and birds?

SOCIAL SCIENCE -

- Solve very short type questions of Chapter-1 (Development) and Chapter-2 (Sectors of the Indian Economy) of Economics in notebook.
- 2-Practice map work of chapter 1 and 3 of Geography. (Map related questions already given in book)

MATHS-

- If one zero of the polynomial $5z^2 + 13z$ -p is reciprocal of the other. then find p.
- 2-If the product of two zeros of polynomial $2x^3 + 3x^2 - 5x - 6$ is 3, then find its third zero.
- Find the polynomial of least degree which should be subtracted from the polynomial $x^4 + 2x^3 - 4x^2 + 6x - 3$. So that it is exactly divisible by $(x^2 - x + 1)$.

Write a quadratic polynomial, sum of whose zeros is $2\sqrt{3}$ and product is 5.

A polynomial g(x) of degree zero is added to the polynomial $2x^3$ + $5x^2-14x + 10$ so that it becomes exactly divisible by (2x-3). Find the g(x).