6- If the zeros of polynomial $x^{3}-a x^{2}+b x-c$ are in AP then show that $2 a^{3}-$ $9 a b+27 c=0$.
7- If 1 and -1 are zeros of polynomial $L x^{4}+\mathrm{Mx}^{3}+\mathrm{Nx}^{2}+\mathrm{Rx}+\mathrm{P}$, show that $\mathrm{L}+\mathrm{N}$ $+P=M+R=0$
8- Prove that: $\sqrt{ } 14$ 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 $10 \mathrm{~m} \times 7 \mathrm{~m}$. 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 $a x^{3}+3 x^{2}-b x-6$ are -1 and -2 . Find the third zero and value of $a$ and $b$.
11- If -4 is a root of the quadratic equation $x^{2}+p x-4=0$ and $x^{2}+p x+k=0$ 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 $3 x^{2}+2 k x+27=0$ are real?
14- Amotor boat whose speed is $18 \mathrm{~km} / \mathrm{h}$ 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 2 pm , the time needed by the minute hand of a clock to show 3 pm was found to be 3 minutes less than $\frac{t^{t}}{4}$ 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- $\quad$ 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 (UP BOARD)

1- $\quad$ 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.

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## Note:1-All the written work is to be done in the fair note book. <br> 2-Prepare taught topics in all subject for test just on reopening of the school.

हिन्दी- (CBSE)

1. बस कर्मचारी के अशिष्ट व्यवहार की शिकायत करते हुए परिवहन विभाग के क्षेत्रीय अधिकारी को इ-मेल लिखिए।
2. 'गीता गारमेंट प्राइवेट लिमिटेड' कम्पनी को सहायक प्रबंधक की आवश्यकता हैं उक्त पद हेतु आवेदन पत्र प्रेषित करते हुए स्व-वृत्त लेखन कीजिए।

## हिन्दी-

 (UP Board)गद्य एवं पद्य साहित्य का इतिहास कंठस्थ कीजिए।
2. 'बेरोजगारी- एक वैश्विक समस्या' विषय पर निबंध लिखिए।

## ENGLISH-

1- You recently visited a cricket stadium to watch your favourite team play. Write a descriptive paragraph : adding the following pointsName, location aspects, atmosphere: sights, sounds, purpose and importance
2- 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)
4- M. No.- 309 \& 310 Ex. -6 to 10 (UP Board)
4- Modals-
5- $\quad$ Exarcises
PHYSICS Excise No.-20-25 Pg No.-20-25 (UP Board)
PHYSICS-
1- 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- $\quad$ 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 ormed on screen
3- 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
4- For the same angle of incidence the angle of reflection in three different media $P Q$ and $R$ are $45^{\circ}$ degree $35^{\circ}$ and $15^{\circ}$ respectively in which medium will the speed of light be minimum give reason for your answer
5- $\quad$ The power of lens used by a is -2.5 D what is the focal length and nature of the lens.

## CHEMISTRY-

1- Aluminium is a reactive metal but is still used for packing food articles. Why?
2- Why is combustion reaction an oxidation reaction?
3- How will you test whether the gas evolved in a reaction is hydrogen?
4- Why does not silver evolve hydrogen on reacting with dillute sulphuric acid?
5- What is observed when a solution of potassium iodide is added to a solution of lead nitrate?
6- Write two observations when lead nitrate is heated in a test tube.
BIOLOGY-
1- Make a Mind Map Of Animal Hormones and Plant Hormones with their Functions on Chart Paper.
2- $\quad$ Prepare a puzzle games on the following topics:
$\begin{array}{ll}\text { 3- A) Transportation } & \text { (b) Excretion } \\ \text { Assume that you are a veterinary surgeon and you had removed a }\end{array}$ 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 your answer.
4- Solve 10 Assertion Reason based questions on given topic Photosynthesis, Stomata, Human digestive system, human circulatory system, Nephron.
5- Why is it necessary to separate oxygenated and deoxygenated blood in mammals and birds?

## SOCIAL SCIENCE -

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

## MATHS-

1- If one zero of the polynomial $5 z^{2}+13 z-p$ is reciprocal of the other then find $p$.
2- If the product of two zeros of polynomial $2 x^{3}+3 x^{2}-5 x-6$ is 3 , then find its third zero.
3- $\quad$ Find the polynomial of least degree which should be subtracted from the polynomial $x^{4}+2 x^{3}-4 x^{2}+6 x-3$. So that it is exactly divisible by $\left(x^{2}-x+1\right)$.
4- Write a quadratic polynomial, sum of whose zeros is $2 \sqrt{3}$ and product is 5 .
5- $\quad$ A polynomial $g(x)$ of degree zero is added to the polynomial $2 x^{3}+$ $5 x^{2}-14 x+10$ so that it becomes exactly divisible by $(2 x-3)$. Find the $\mathrm{g}(\mathrm{x})$.

