

**MILESTONE ACADEMY  
VACATION HOMEWORK  
CLASS: 10**

**Submission Date: 14.06.21**

**ENGLISH**

Q1. Make a PORTFOLIO on Chapter: 3 TWO STORIES ABOUT FLYING on a project file [hard copy] sample portfolio is attached.

Q2. 'The Diary Of Anne Frank' is a 1959 film based on Pulitzer prize winning play of the same name, which is based on the diary of Anne Frank. This diary is the long reading text prescribed by CBSE for extensive study. Make sure that you watch the movie and write your analysis in 100-120 words.

[https://youtu.be/w21O8mP9\\_Ak](https://youtu.be/w21O8mP9_Ak)

Q3. THREE TYPES OF LETTER a) ENQUIRY b) PLACING AN ORDER  
c) COMPLAINT LETTER. Write a letter each and also indicate the differences

Q4. make a detailed PowerPoint presentation on Poem: 4 - **How to Tell Wild Animals (Poem)**  
The presentation must include  
About the author B. Key points C. Poetic Devices D. Summary

**HINDI**

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**SANSKRIT**

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**MATHS**

1. **ACTIVITY:** To use the graphical method to obtain the conditions of consistency and hence to solve a given system of linear equations in two variables

**Materials Required**

- a. Three sheets of graph paper
- b. A ruler
- c. A pencil

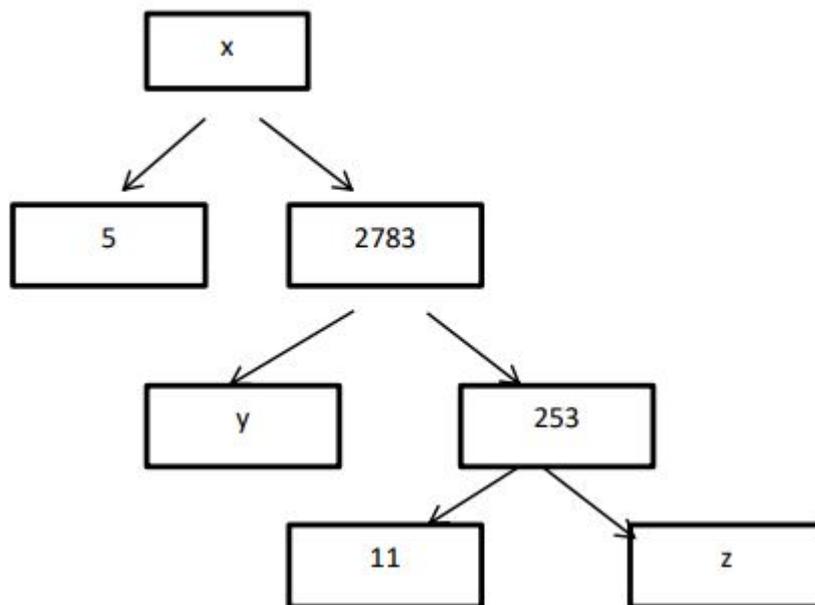
### Questions based on above activity

- Which set of equation represent Intersecting lines?
- Which set of equation represent Parallel lines?
- Which set of equation represent Co-incident lines?
- Which set of equation is consistent and has a unique solution.
- Which system of equations is consistent and has infinitely many solutions

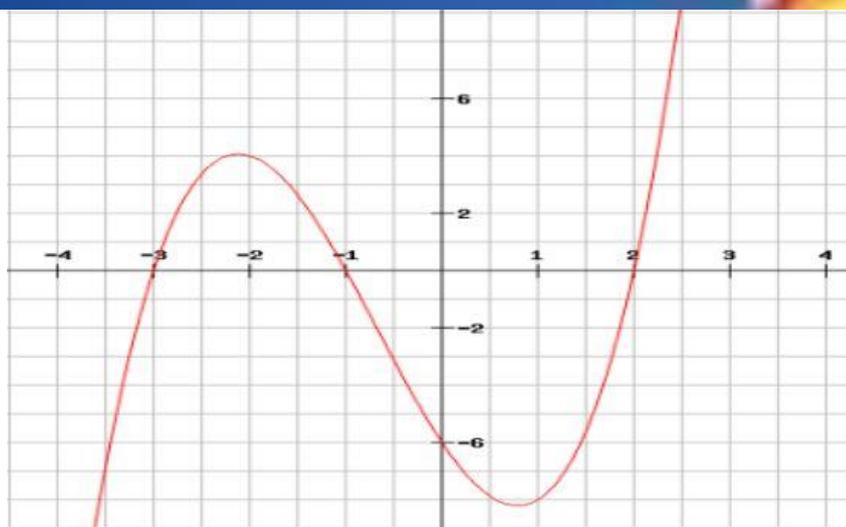
2. The sum of the lives of the two electric lamps one CFL and other ordinary lamp is 10 years. The product of these two lamps is 26 years. Is this situation possible, if so determine their lives?

Keeping 'Save Energy' in mind which type of the lamp one should prefer?

- Write the different types of polynomials (based upon degree) with one example of each
- A school decided to award prizes to the most punctual and the most obedient student. The sum of the two prizes is Rs. 150 and their product is Rs. 5600. Represent the given situation in the form of quadratic and find the prize money. Which value you prefer the most?
- To enhance the reading skills of grade X students, the school nominates you and two of your friends to set up a class library. There are two sections- section A and section B of grade X. There are 32 students in section A and 36 students in section B. What is the minimum number of books you will acquire for the class library, so that they can be distributed equally among students of Section A or Section B?
- A seminar is being conducted by an Educational Organisation, where the participants will be educators of different subjects. The number of participants in Hindi, English and Mathematics are 60, 84 and 108 respectively. **In each room the same number of participants are to be seated and all of them being in the same subject (hence maximum number participants that can accommodated in each room).**
- A Mathematics Exhibition is being conducted in your School and one of your friends is making a model of a factor tree. He has some difficulty and asks for your help in completing a quiz for the audience. Observe the following factor tree and find value of  $x, y, z$ .



8. Observe the following graph and answer, how many zeroes are there for the polynomial?



9. To prepare a list of 10 quotations on mathematics.

10. Write about (any one) Indian Mathematicians and their contributions.

## G.S.C

### SECTION – A PHYSICS

- Name the instrument used for measuring :  
(i) Potential difference (ii) Current
- Name the instrument used to measure electric current in a circuit.
- What happens to resistance of a conductor when its area of cross-section is increased?
- Give an example of a metal which is the best conductor of heat.
- Name the physical quantity whose unit is volt/ampere.
- A wire of length  $l$  and area of cross-section  $A$  was drawn into a wire of double its length by melting it. If its original resistivity and resistance were  $\rho$  and  $R$  respectively, what will be its new resistivity and resistance ?

### SECTION – B CHEMISTRY

- Why are decomposition reactions called the opposite of combination reactions ?
- What are exothermic and endothermic reactions. Explain with the help of one example each.
- Why do we apply paint on iron articles ?
- (a) Identify the substance oxidized, substance reduced, oxidizing agent and reducing agent in the following reaction.  $\text{CuO} + \text{H}_2 \rightarrow \text{Cu} + \text{H}_2\text{O}$   
(b) What is meant by rancidity ?
- The colour of copper sulphate solution changes when an iron nail is dipped in it. State the reason giving chemical equation for the reaction involved.  
(a) Identify the substance oxidized, substance reduced, oxidizing agent and reducing agent in the following reaction :  
 $\text{ZnO} + \text{C} \rightarrow \text{Zn} + \text{CO}$   
(b) Packets of potato chips are flushed with nitrogen gas, why ?
- Write the balanced equation for the chemical reactions involved, when

- (a) chlorine is passed over dry slaked lime.  
(b) sodium bicarbonate reacts with dilute hydrochloric acid.

**SECTION – C**  
**BIOLOGY**

→ **Project Assignment on the Topic: VACCINATION**

→ **Significance of Title:** In present context the word Vaccine / Vaccination or Immunization become more prominent as the “Final **HOPE** for Life”. The topic is also associated with our life processes in terms of boosting the disease fighting potencies unlike any antibiotics (dedicated to fight against bacteria only).

To associate with worldwide mega unite programme to stand together against COVID and to contribute dedicated work of scientists for the development of Vaccine within year, the project title is suitable to magnify our learning.

→ **References for making project:** <https://www.mohfw.gov.in/>,

<https://www.aarogyasetu.gov.in/> , <https://www.cdc.gov/>

Newspapers, Why do we fall ill? (C- 9<sup>th</sup> Science Chapter), Any other accessible authentic resources

⇒ **Topics to be included page wise:**

- Front Page:** Format will be given later (after vacation)
- Page 01 : Related to Vaccines (Definition, Discoverer, Significance etc.) Page
- 02 : Types of Vaccines (minimum 6 examples)
- Page 03 : Need of Vaccine
- Page 04 : Related to Body Immunity (Definition & Significance etc.) Page
- 05 : About COVID Vaccine (COVISHIELD, COVACCINE)
- Page 06 : Difference between Antibiotics & Vaccine
- Page 07 : Prepare a Self Made **Slogan / Short Poem** etc. to encourage people for COVID vaccination (maximum 4 lines & Slogan only could be written in Hindi also)
- Page 08 : Your Own Learning Outcome about the Project Topic.

⇒ Note:

**“Learn & Express”**

1. Use A4 size white sheet or Note Book Page or any available better paper.

2. Project must be "Hand Written" only.
3. Possible then paste relevant Pictures / Images also.
4. Write point wise with legitimate handwriting.
5. Use as much as possible colour pen etc to make project highly presentable.
6. Don't copy contents.
7. Keep all pages with you safely, once format of front page given; Staple & Submit.
8. Way of Submission (ONLINE / OFFLINE) would be informed later.
9. In case of any guidance contact Biology Teacher.
10. All the very best for the same; Enjoy Vacations

### **S.SC**

1. Make a Project Report on " Consumer Protection " in economics .( Ref. economics NCERT Ch.no.5.)
2. Activity- With Reference to Indian crops  
Make a small booklet stating the various food crops in different cropping patterns.  
Procedure :- Take sample of different food grains for ex.  
Bajra, collect it in a small transparent sachet and staple it on a page. Write it's  
1.Cropping Season 2. Climate 3. Soil Type 4.Location  
Likewise you have to do for all the food crops mentioned in the NCERT text book Ch.no 4- Agriculture.

### **COMPUTER**

\*Task:\*Start OO Writer type following text and apply different inbuilt styles as marked in front of contents.

## Think and Succeed like Kohli

Heading 1

### The Master Strategist

Heading 2

Lights are on. The bowler comes to deliver at 100 miles per hour. Guess what? It's dispatched for a Six. Virat Kohli has done it again.

Quotations

Lines like this have become common when it comes to referring to Virat Kohli. Amidst the noise of the sixes and fours and the whistles from the crowd, this gladiator proves that if there is a CEO of cricket, he is rightfully the one. So here's how Virat epitomises the role of CEO for a firm:

Text Body Indent

### Being always in the action

Heading 3

Like a CEO who wants to be in the middle of the action all the time, Virat is also very similar in his approach. It is extremely difficult to keep him out of action whether it is fielding, batting, or bowling. Like Steve Jobs, the legendary Apple CEO always used to be in the middle of the action whether it was developing a product or launching the same in front of large audience.

Text Body Indent

#### Learning Tip

*Be passionate about the role you are set to perform and you will succeed.*

Illustration

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