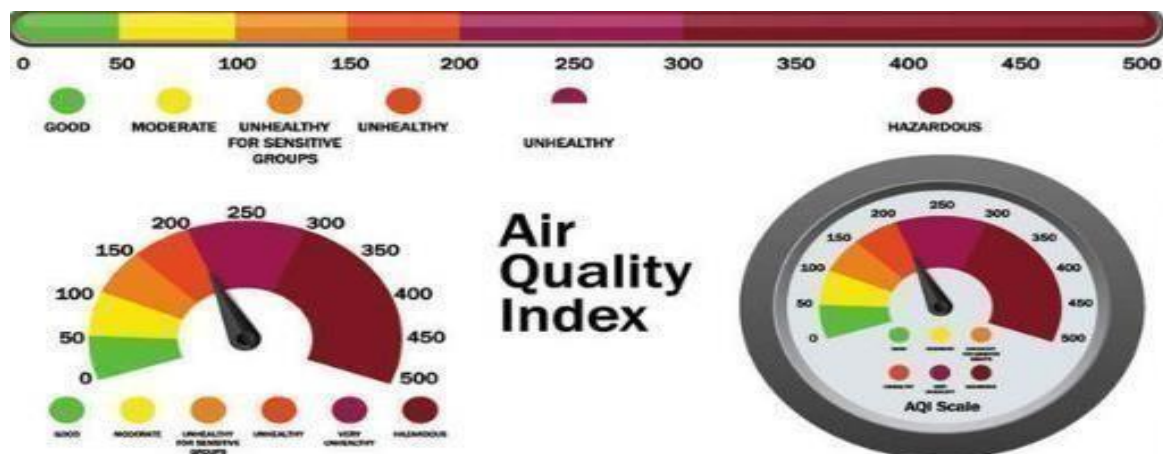


**EAST POINT SCHOOL  
HOLIDAY HOMEWORK  
CLASS VII**

**General Instructions**

- The Holidays Homework must be done in a very neat and presentable manner.
- The child will be assessed for the presentation, neatness, completion of all the given questions, and timely submission.
- Compile and submit all your work in a folder with your name, roll no, and class clearly written on the top.
- The students will do their respective projects assigned according to their given Roll Numbers.
  - Roll No 1-10 – Project A (AIR QUALITY INDEX)
  - Roll No 11-20 – Project B (DISINFECTANTS)
  - Roll No 21-30- Project C (WAR POLLUTION)
  - Roll No 31 ONWARDS – Project D (CLIMATE CHANGE)
- The compulsory section of Mathematics should be done by all the students.

**GROUP-1-AIR QUALITY INDEX**



**Learning Objective:-**

- ✚ Using an interdisciplinary approach Students will:

- Increase mathematical skills in interpreting line graphs, datacollection and problem solving from graphed data
- Gain an understanding of local issues and increased awareness of air quality

Computation of the AQI requires an air pollutant concentration over a specified averaging period, obtained from an air monitor or model. Taken together, concentration and time represent the dose of the air pollutant. Health effects corresponding to a given dose are established by epidemiological research. Air pollutants vary in potency, and

the function used to convert from air pollutant concentration to AQI varies by pollutant. Its air quality index values are typically grouped into ranges. Each range is assigned a descriptor, a color code, and a standardized public health advisory.

The AQI can increase due to an increase of air emissions (for example, during rush hour traffic or when there is an upwind forest fire or from a lack of dilution of air pollutants. Stagnant air, often caused by an anticyclone, temperature inversion, or low wind speeds lets air pollution remain in a local area, leading to high concentrations of pollutants, chemical reactions between air contaminants and hazy conditions.

### ENGLISH

- Environment is the most debated topic on earth today. The rapid population growth, economic development and the disposal of plastics, e-waste and sewage pose a greater challenge to the developing countries like India. So, it is time for us to reflect and aim at creating a greater awareness as there is an urgent need to conserve and protect the environment for healthy human beings. Keeping in mind the above view point, write a **LETTER** to your friend expressing your concerns for health of the city dwellers due to poor AIR QUALITY INDEX and what will be your action plan in your area to make the planet a better place to live in. (Word limit 120-150 words)

OR

- Write an **ARTICLE** in about 200 words on the topic on 'Odd and Even formula in Delhi' analyzing its merits and demerits and including people's reactions and your personal views about it.

### HINDI

कीटनाशकों के इस्तेमाल वाली फसलों के खाने से न सिर्फ इंसान की सेहत पर प्रभाव पड़ा, बल्कि पशु-पक्षी, कीट-पतंगे और पर्यावरण भी प्रभावित हुआ। इस विषय पर जानकारी देते हुए अपने दादा जी को पत्र लिखें।

### MATHS

- Students will make the record of the current ratings of the Air Quality Health Index (**AQHI**), wind speed and temperature for a minimum of 5 days. These values will be recorded approximately the same time each day. They will be assigned one community that has daily **AQHI** ratings.

### SCIENCE

Research and Write

- What is Air Quality Index? How to measure it?
- Find out the causes of high Air Quality Index and measures to solve it.

### SOCIAL STUDIES

- Check the last three months AQI and prepare a report about the AQI on your observation basis. Which month Air quality is worst and why?
- Make a poster for spreading awareness about The Air pollution and how can we give our contribution to reduce it.
- Make a Table on “What colour is my Air today”.

### **SANSKRIT**

(क) दिल्ली एनसीआर में बढ़ते हुए प्रदूषण के कारण

(ख) ग्राफ द्वारा अक्टूबर नवम्बर और दिसम्बर मास में वायु गुणवत्ता सूचकांक प्रदर्शित करें।

(ग) लेख संस्कृत में लिखें।

### **COMPUTERS**

- Create a presentation on the Air quality index of different states.

**EAST POINT SCHOOL  
HOLIDAY HOMEWORK**

**GROUP -2 DISINFECTANTS**

- ✚ To enable the students to understand the what, when, where, and how of disinfectants in a detailed form.
- ✚ Uses of the disinfectants in unexpected situations like a pandemic.
- ✚ To enable the students to effectively enhance the thinking skills, explore and apply accumulated knowledge into concepts.

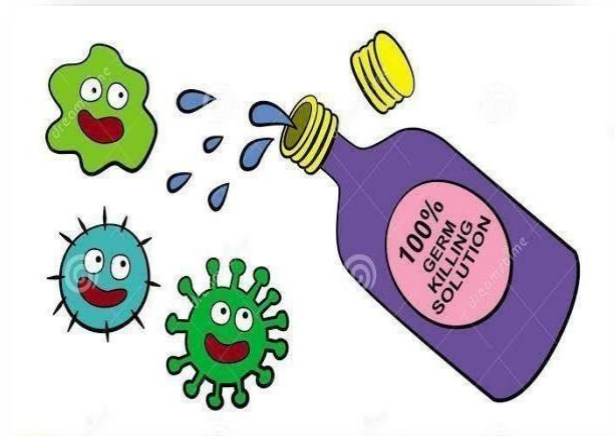
**DISINFECTANTS**

Disinfectants are chemical agent designed to inactivate or destroy microorganisms on inert surfaces. Disinfection does not necessarily kill all microorganisms, especially resistant bacteria spores; it is less effective than sterilization, which is an extreme physical or chemical process that kills all types of life. Disinfectants are generally distinguished from other antimicrobial agents such as antibiotics, which destroy microorganisms within the body, and antiseptics, which destroy microorganisms on living tissue. Disinfectants are also different from biocides — the latter are intended to destroy all forms of life, not just microorganisms. Disinfectants work by destroying the cell wall of microbes or interfering with their metabolism.

Sanitizers are substances that simultaneously clean and disinfect. Disinfectants kill more germs than sanitizers. Disinfectants are frequently used in hospitals, dental surgeries, kitchens, and bathrooms to kill infectious organisms.

Bacterial endospores are most resistant to disinfectants, but some fungi, viruses, and bacteria also possess some resistance.

A perfect disinfectant would also offer complete microbiological sterilization, without harming humans and useful form of life, be inexpensive, and noncorrosive. However, most disinfectants are also, by nature, potentially harmful (even toxic) to humans or animals. Most modern household disinfectants contain Denatonium, an exceptionally bitter substance added to discourage ingestion, as a safety measure. Those that are used indoors should never be mixed with other cleaning products as chemical reactions can occur. The choice of disinfectant to be used depends on the particular situation. Some disinfectants have a wide spectrum (kill many different types of



microorganisms), while others kill a smaller range of disease-causing organisms but are preferred for other properties (they may be non-corrosive, non-toxic, or inexpensive).

## ENGLISH

- During the pandemic, Covid-19, the people are using disinfectants in large quantities and consider it essential to kill germs. Your English teacher has asked you to deliver a speech on 'Disinfectants' in your online class. Write a speech in about 100-150 words and include the following points to make your speech interesting: -
  - Why do we use Disinfectants?
  - Importance
  - Harmful effects of excessive usage of disinfectants.



## HINDI

- मलिनताहटानेवालेद्रव्य ( निस्संक्रामकDISINFECTANTS ) किस प्रकार हानिकारक हैं इसकी जानकारी एकत्रित करते हुए इसके लाभ या हानि लिखें । इसको कितना इस्तेमाल करना उचित है ।

## MATHS

- Show the percentage of disinfectant widely used during Covid-19 in India by using a pie chart.
- Identify the percentage of types of disinfectants used in COVID -19
- Draw the pie chart by taking a suitable radius and represent all the disinfectants to make a circle of  $360^{\circ}$

## SCIENCE

- Research and Write: -
  - Why is it suggested to use disinfectants? Name any two disinfectants commonly used in our homes?
  - Which chemical substance is used to make household disinfectants? Why?
  - How do disinfectants work?

## **SOCIAL STUDIES**

- Are there any plant extracts that act as natural disinfectants for bacteria and viruses? Make a table including at least 5 names of such plants, their properties in which bacterial infection we can use them.
- Mark the places on the Indian map where we can get these plants. Can we add any of these natural disinfectant plants in our daily life?

## **SANSKRIT**

- सामान्य रूप से प्रयोग होने वाले कीटनाशकों के नाम लिखकर उनका स्वास्थ्य पर क्या प्रभाव होता है। चित्र सहित एक चार्ट पर समझाओ।

## **COMPUTERS**

- Create an advertisement on the topic, 'Different types of Disinfectants and their features'
  - Use Single Power Point.
  - No transition effect.
  - Give a brand name to your advertisement

### **EAST POINT SCHOOL HOLIDAY HOMEWORK CLASS VII**

#### **GROUP-3 WAR POLLUTION**



### Learning Objective: -

- ✚ define different types of pollution.
- ✚ explain how different types of pollution are affecting us and propose possible solutions to the problem.

Study of the **environmental impact of war** focuses on the modernization of warfare and its increasing effects on the environment. Scorched earth methods have been used for much of recorded history. However, the methods of modern warfare cause far greater devastation on the environment. The progression of warfare from chemical weapons to nuclear weapons has increasingly created stress on ecosystems and the environment. Specific examples of the environmental impact of war include World War I, World WarII, the Vietnam War, the Rwandan Civil War, the Kosovo War and the Gulf War.

### ENGLISH

- Mahatma Gandhi said “The end of nonviolent 'war' is always an agreement, never dictation, much less humiliation of the opponent ". Keeping in mind his ideology write a **SPEECH** on the topic “Is war necessary to bring back World Peace" in 100-120 words. Give a special emphasis on recent War between Russia and Ukraine.

OR

- India has been facing and fighting terrorism for the last twenty years. Infact terrorism has disrupted the peace and humanity of the country and created panic and insecurity in certain areas/states. Write an **ARTICLE** in about 150-200 words on ‘Terrorism: A Curse to Humanity’.

### HINDI

- युद्ध प्रदूषण विषय पर एक लेख लिखें

### MATHS

- Draw a pie chart showing the different agents of pollutants that arecausing pollution in war.
  - Collect the data of the pollutants in the war. Calculate the percentage of pollutants.
  - Use a mathematical compass to draw a circle.
  - □ Show all the agents of pollutants through the piechart



## SCIENCE

- Mention the harmful effects of war pollution on the following:
  - ~ Soil
  - ~ Water
  - ~ Air

## SOCIAL STUDIES

- As a New Reporter prepare a News on "How the Ukraine Crisis Developed, and Where It Might Be Headed'
- Collect the newspaper cutting and make a scrap book regarding the Russia -Ukraine war. Keep yourself updated about the war.
- Mark the important cities of Ukraine where Russia has attacked.
- Write a brief note on NATO and Mark the countries under the NATO on political map of World.

## SANSKRIT

(क) युद्ध का पर्यावरण पर प्रभाव ।

(ख) रूस और यूक्रेन युद्ध एवं द्वितीय विश्व युद्ध को आधार बनाकर लेख संस्कृत में लिखो ।

(ग) लेख को चित्रों सहित प्रस्तुत करें।

## COMPUTERS

- Create a poster using any application software on the topic: Water Pollution

### EAST POINT SCHOOL

### HOMEWORK

### CLASS VII

## GROUP-4 –CLIMATE CHANGE

### Learning Objective:-

- ✚ To enable the students to understand the causes and consequences of climate change.
- ✚ Prepares them to live with the impacts of climate change and empowers learners to take appropriate actions to adopt more sustainable lifestyles.
- ✚ To enable the students to effectively enhance the thinking skills, explore and apply accumulated knowledge into concepts.



## CLIMATE CHANGE

The weather is a common conversation for many people each day. The weather can change day-to-day or even from hour-to-hour. On the other hand, the climate in an area usually takes a long time to change. It is the average temperature and conditions in a specific place over a long period, in years. Climate does not change day-to-day or even month-to-month, but usually takes hundreds, thousands, or millions of years to change.



The climate is one place on Earth that is different than another place. For example, the climate in a desert may be hot and dry, but in a rainforest, it is usually warm and humid, and in some mountain areas and other places it will be cold all year long. In the world today, the words climate change is often heard, and it usually refers to the process of the Earth heating up, which is often called global warming. Climate change will have serious implications as numerous adverse impacts are expected in terms of access to clean water, food, and ecosystem resources. By 2022, it is feared that in some African countries yields from rain-fed agriculture could be reduced by up to 50%. Climate change is also likely to lead to some irreversible impacts on biodiversity. However, it is within the reach of human society to meet these threats. We have to adapt to climate change. It requires investment in storm protection and water supply infrastructures as well as community health services.

Bringing changes in lifestyle is an important part of mitigation measures. Greater cooperative efforts are required by both developed and developing

nations to stop the emission of greenhouse gases. The youth of

today have a huge responsibility towards creating a bright future and they have a stake in it. They must pursue knowledge by which economic progress can take place without changing the environment.

## ENGLISH

- Recently you watched on the news channel that people of Australia suffered a lot because of climate change. Over the last few months, the bushfires have already scorched millions of acres, killed dozens of people, and slaughtered an estimated half a billion animals in the country. You are highly worried about the well-being of your friend who stays in Australia. Write a letter to your friend asking about his/her well-being; also express your grief for the loss in the country. (Word Limit-150-180 words)

## HINDI

- जलवायु परिवर्तन के प्रभाव तथा समाधान पर चर्चा करते हुए भारत द्वारा उठाए गए कदमों की समीक्षा कीजिये।

## MATHS

- Using a bar graph showing the change in an average increase in temperature of the earth due to air pollution. Also, represent it through tabular representation.
- Collect your data about the increase in temperature of the last 50 years
- Draw an x and a y-axis.
- Label the vertical axes y-axis (Increase in the temperature) Label the Horizontal Axes x-axis (Year).
- Also, find the width of the bar and then draw the bar graph by using the above information.

## SCIENCE

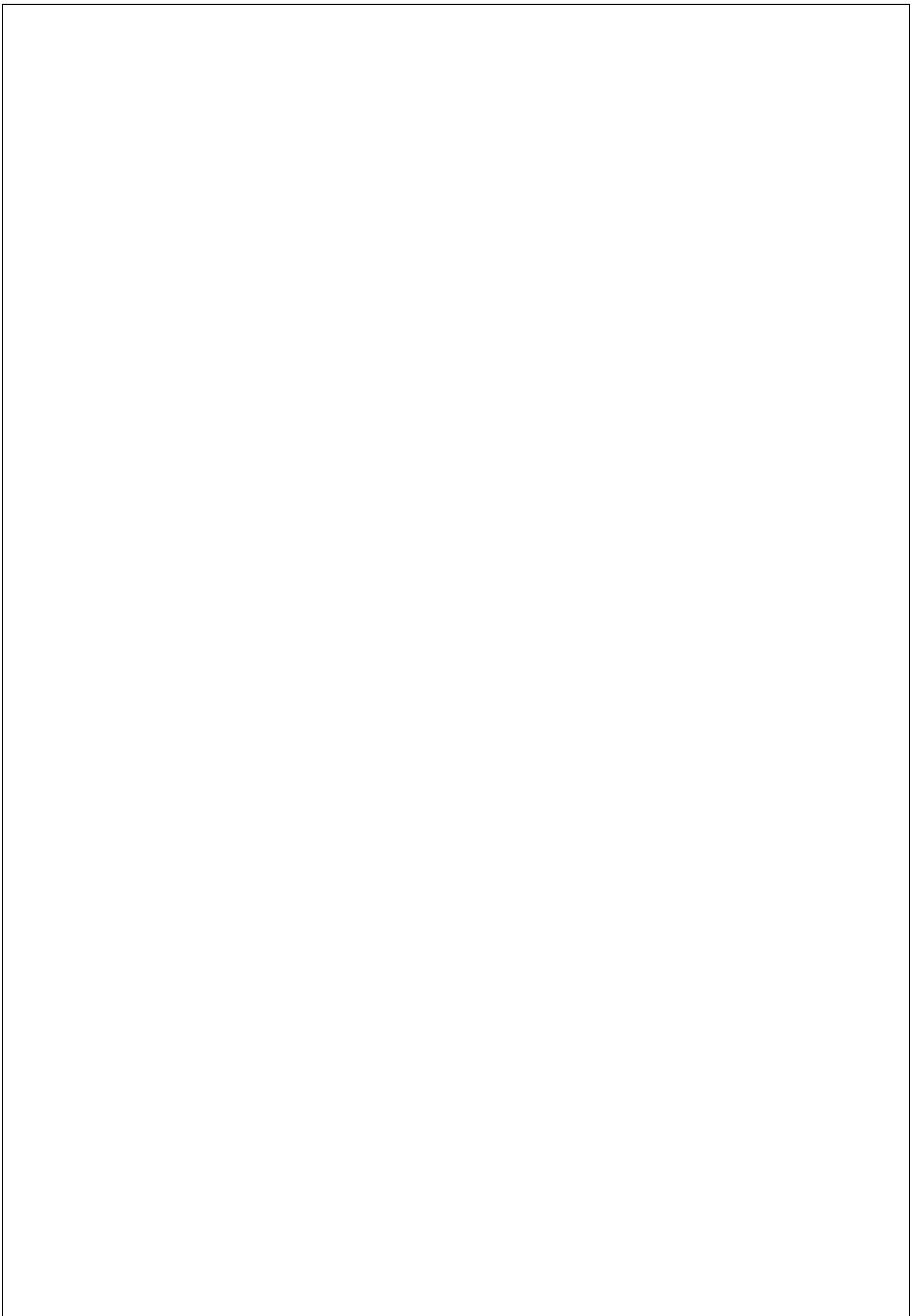
- The factors causing climate change include – rise in temperature, deforestation, waste mismanagement, hunting, and many more. Make a flowchart to show the timeline of climate change in the last 50 years. It was unpredictable that AQI (Air Quality Index) can be below 100 in Delhi at any point in time. These days due to lockdown we all are observing that AQI is below 100. Is it possible to maintain it after the lockdown is over?
- Represent your ideas of maintaining it through pictorial representation.

## SOCIAL STUDIES

- Write the answer to the following questions, after the detailed research on Carbon Footprint.
  - Effects and Causes of Carbon footprint
  - How to calculate the Carbon footprint?
  - Steps on how to reduce Carbon footprint.

## SANSKRIT

- जल वायु परिवर्तन के विषय में संस्कृत में चित्र सहित एक लेख लिखो।



## **COMPUTERS**

- Prepare a one-page report on the topic, 'Climate Change'. Use MS-Word Features given below:
  - Drop caps
  - Justified Alignment
  - Bold Important terms
  - Times New Roman-12 font
  - Page Border

## **ART**

- Create Bird Nest by using waste plastic Bottle

## **MUSIC**

- Best out of waste-: Instruments making skill by waste material.
- Make a PPT on Indian classical music.
- Research about Indian VOCALIST and paste pictures (project work) on color sheets and tag in a file.
- Write a song on save earth. ( ENGLISH OR HINDI).

## **DANCE**

- Research on Indian classical dance with complete history.
- Learn 4 classical dance step of any Indian dance form.
- Read few points on folk and Indian dance and make a PPT on the same.

## **GERMAN**

Prepare a Power Point Presentation according to your Roll Numbers which have to be present in front of the class in the group:

Group 1 (Roll No: 1 – 5) Germany

Group 2 (Roll No: 6-10) Berlin

Group 3 (Roll No: 11-15) Hamburg

Group 4 (Roll No: 16-20) Munich

Group 5 (Roll No: 21-25) Frankfurt

Group 6 (Roll No: 26-30) Cologne

Group 7 (Roll No: 31-35) Heidelberg

Group 8 (Roll No: 36– 40) Hanover

Group 9 (Roll No: 41 and above) Dresden

2. Make a Chart/ Poster/ Collage related to Germany or German Language.

3. Write an email in your German notebook (Hallo Deutsch, Pg No-14, Ques – 24)

## **COMPULSORY SECTION**



## **ENGLISH**

Q1 Read any one of the books from the suggested reading list given below to enhance your reading and comprehension skills:

- Three Men in a Boat by Jerome K. Jerome
- Daddy-long-legs by Jean Webster.

- Adventures of Tom Sawyer *by Mark Twain*

### MENTAL MATHS

Q1. A ribbon of length  $5\frac{1}{4}$  is cut into small pieces each of length  $\frac{3}{4}$  m. Find the length of each piece ?

- (a)  $18\frac{1}{4}$                       (b)  $13\frac{1}{4}$                       (c)  $2\frac{1}{4}$                       (d) none of these

Q2. The lowest form the rational number  $\frac{48}{20}$  is

- (a)  $\frac{12}{10}$                       (b)  $\frac{6}{5}$                       (c) 1                      (d) 0

Q3. If  $\frac{2}{3}$  of a number is 10 then what is 1.5 times that number.

- (a) 21.5                      (b) 20.5                      (c) 19.5                      (d) 22.5

Q4. Find the area of the square if the perimeter of a square is 20 cm.

- (a)  $5\text{cm}^2$                       (b)  $25\text{cm}^2$                       (c)  $1\text{cm}^2$                       (d) none of these

Q5. Ritu ate  $\frac{2}{5}$  part of the cake. How much cake is eaten by her brother ?

- (a)  $\frac{3}{5}$                       (b)  $\frac{4}{5}$                       (c)  $\frac{2}{5}$                       (d) none of these

Q6. The lowest form of the product  $\frac{3}{7} \times \frac{14}{9}$  is

- (a)  $\frac{2}{3}$                       (b)  $\frac{3}{2}$                       (c)  $\frac{42}{63}$                       (d) none of these

### WORD PROBLEMS

1. Nasreen travelled 3km 920m by bus and walked the remaining 90m to reach her house. How much distance in km did she travel in all?

2. A truck requires 108 liters of diesel to cover a distance of 594 km. How much diesel will be required to cover a distance of 1650 km?

3. Jasmine went to see a movie. She bought a ticket for Rs 112.70. During the interval, she bought a cold drink and popcorn worth Rs 87.65. Later she took an auto rickshaw to whom she paid Rs 56.35. If Jasmine had Rs 500, calculate the amount with her.

4. A box contains 4 strips of antibiotic capsules. Each strip has 9 capsules and each capsule contains 250 mg of medicine. What will be the total weight of medicine in grams in 50 such boxes?

5. Deepika had to solve 20 questions for her homework. She had solved 5 questions. What fraction of the homework is still left?