



## Holiday Homework

### Class - VIII (2022-23)

**\*Note for Students\*:** Summer Holidays are a well deserved opportunity to relax and rewind by indulging in activities that are pleasurable at the same time educative. We would like to thank all of you for making online classes and virtual Assessment a success. It's a sincere request to all to complete holiday projects and home assignments on time. Engage yourself wholeheartedly as you will learn a lot through it. Practice your hobbies or inculcate new hobbies. Please ensure that you complete the assignment neatly.

**\*Note for Parents\*:** Summer Holidays Homework is an initiative on our part, to inculcate innovativeness, creativity and interest in the tasks assigned to our students. It will not only enable them to recapitulate what was taught but will also help them to connect themselves to the various learning processes.

#### **ENGLISH:**

Write down essay on the following topics in about 200-250 words in your grammar notebook.

1. Missile man of India-Dr. A. P. J. Abdul Kalam.
2. Blessings of Science.
3. The Happiest day of my life.
4. An Hour at the Railway Station.
5. Plastic -A Boon or Bane.

#### **हिंदी:**

जल का हमारे जीवन में उपयोग जल के प्रदूषित होने के कारण एवं जल को प्रदूषित होने से बचाने बचाने के उपाय चित्र सहित बताएं।



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कोई भी दो दोहे अर्थ सहित लिखकर चार्ट पेपर पर लिखिए

5 पेज सुलेख लिखिए

महादेवी वर्मा की दो कविताएं कंठस्थ करके लिखिए

## **SOCIAL STUDIES:**

Question 1

Interview your Mother or another member of your family to find out about their life. Now divide their life into different periods and list out the significant events in each period. Explain the basis of your periodisation.

Question no : 2

Briefly explain the Fundamental Rights in the Indian Constitution includes.?

Question 3

Make a list of five human made resources that you can observe around you. (Explain the features )

Instructions:

A. Make a milky file and compile all the topics related to the project in it.

B. Integrate various ways of art in the project work.

C. It is to be noted here by all students that the projects and models prepared should be made from eco-friendly products without incurring too much expenditure.

8. The Project Report should be handwritten.

## **MATHEMETICS**

All the questions of worksheet which is given, and Solve NCERT exercise 2.1 and 2.4 solve in the separate notebook.

Solve the following linear equations:

(i)  $X - 11 = 7$



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(ii)  $Z + 8 = 9$

(iii)  $11x = 121$

Solve:  $y/11 = 11$

Solve  $1.2 = z/1.4$

Solve  $11 - 5x + 3x + 4x = 18$

Solve  $(x - 2) + (x - 3) + (x - 9) = 0$

A positive number is 5 times another number. If 21 is added to both the numbers, then one of the new numbers becomes twice of the other new numbers. Find the original numbers.

Five years ago, Anu was thrice as old as Sonu. After ten years, Anu will be twice as old as Sonu. How old are Anu and Sonu?

Three consecutive integers are as such they are taken in increasing order and multiplied by 2, 3, and 4, respectively, they add up to 56. Find these numbers.

The perimeter of a rectangular swimming pool is 154 meters. Its length is 2m more than twice its breadth. What are the length and the breadth of the pool?

Sum of two numbers is 95. If one exceeds the other by 15, find the numbers.

The numbers are in the ratio 4:3. If they differ by 18, find these numbers.

Three consecutive integers add up to 57. What are these integers?

There is a narrow rectangular plot. The length and breadth of the plot are in the ratio of 11:4. At the rate of Rs. 100 per meter it will cost the village panchayat Rs. 75000 to fence the plot. What are the dimensions of the plot?

Amina thinks of a number and subtracts  $5/2$  from it. She multiplies the result by 8. The final result is 3 times her original number. Find the number.

A number is 12 more than the other. Find the numbers if their sum is 48.

The sum of three consecutive odd numbers is 51. Find the numbers.

Jane is 6 years older than her younger sister. After 10 years, the sum of their ages will be 50 years. Find their present ages.

The denominator of a fraction is greater than the numerator by 8. If the numerator is increased by 17 and denominator is decreased by 1, the number obtained is  $3/2$ . Find the fraction.

Write any 5 rational numbers between  $-2/5$  and  $1/2$ .

If the product of any two rational numbers is 2 and one of them is  $1/7$ , find the other?



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Mr X went shopping with a certain amount of money. He spent Rs.  $10\frac{1}{4}$  on buying a pen and Rs.  $25\frac{3}{4}$  in food. He then gave the remaining Rs.  $16\frac{1}{2}$  to his friend. Calculate how much money he initially had.

Represent  $-\frac{2}{11}$ ,  $-\frac{5}{11}$ , and  $-\frac{9}{11}$  on the number line.

What is the multiplicative identity of rational numbers?

Represent the following rational numbers on number lines.

(a)  $-\frac{2}{3}$

(b)  $\frac{3}{4}$

(c)  $\frac{3}{2}$

If  $x = \frac{1}{2}$ ,  $y = -\frac{2}{3}$  and  $z = \frac{1}{4}$ , verify that  $x \times (y \times z) = (x \times y) \times z$ .

One-third of a group of people are men. If the number of women is 200 more than the men, find the total number of people.

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## **SCIENCE:**

Microorganisms: Friend or Foe

Question 1.

Name the groups in which microorganisms are broadly classified.

Question 2.

Name the type of microorganism that is smaller than bacteria.

Question 3.

Write the name of a bacterium that helps in the formation of curd.

Question 4.

Write a use of yeast.

Question 5.

What does yeast produce during respiration? ‘.

Question 6.

What are pathogens? Write another name of pathogens.

Question 7.



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Define food preservation.

Question 8.

Write the names of any two antibiotics.

Question 9.

Who discovered the vaccine for small pox?

Question 10.

What is fermentation?

Question 11.

Define refrigeration.

Question 12.

What is vaccine?

Question 13.

Name any two human diseases caused by viruses.

Question 14.

Name any three common plant diseases.

Question 15.

Name a microorganism which helps in nitrogen fixation.

Question 16.

Name a disease caused by food poisoning.

Question 17.

What is the difference between refrigeration and freezing?

Question 18.

What is decomposition?

Question 19.

Name the two microbes that are involved in the process of decomposition.

Question 20.

Name the first antibiotic discovered.

Question 21.

What are microorganisms? Give four examples.



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Question 22.

Classify bacteria on the basis of their shapes.

Question 23.

Define communicable diseases. Give some examples.

Question 24.

Differentiate between viruses and other microorganisms.

Question 25.

What do you mean by food spoilage?

Question 26.

What role does sugar play in the preservation of food?

Question 27.

How are carriers harmful to us?

Question 28.

What is vaccination?

Question 29.

What do you mean by immunity?

Question 30.

Give two examples of each of the following types of microorganisms:

(a) Algae (b) Fungi (c) Protozoa

Question 31.

What are antibodies?

Question 32.

What is the role of bacteria in increasing the soil fertility?

Question 33.

Define Ohmic heating.

Question 34.

What is sterilisation?

Question 35.

What is pasteurisation?



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Extra Questions Long Answer Type

Question 1.

Explain why antibiotics do not work against flu or any infection caused by viruses.

Question 2.

Mention any three ways through which pathogens are transmitted.

Question 3.

Explain canning.

Answer:

Question 4.

Explain how malaria is transmitted to humans.

Question 5.

Explain various types of bacteria.

Microorganisms: Friend and Foe Class 8 Extra Questions HOTS

Question 1.

Unscramble the jumbled words underlined in the following statements

- (a) Curbossulite is an air-borne disease caused by a bacterium.
- (b) Xanrhat is a dangerous bacterial disease.

© Yeasts are used in the wine industry because of their property of meronettinaf.

- (c) Cells of our body produce santiidobe to fight pathogens.

€ Aecessrrwtp are added to food to prevent growth of microorganisms.

Question 2.

What is the difference between Rhizobium and cyanobacteria in the way of fixing nitrogen for the plants?

Question 3.

It is always suggested that not to eat anything from street hawkers. Why?

Question 4.

Why oil is added while making pickle?

Question 5.

Ria thought of making curd. For this, she took lukewarm milk, mixed some curd into it and stir well. She kept the mixture in fridge. Next day she observed that curd was not set. Can you tell why the curd did not set?



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## Question 6.

Why do idli and dosa maker add some yeast or old batter of pervious day to the newly-made batter and keep it for one day?

Microorganisms: Friend and Foe: Questions Value Based Questions (VBQs)

## Question 1.

Seema got cough and cold badly. Her teacher asked her to take rest at home and use handker chief while sneezing and coughing. She obeyed her teacher.

- (a) Why should we keep a handkerchief on nose and mouth while sneezing or coughing?
- (b) What are the modes of transfer of diseases from infected to healthy person?

© Do you think Seema's teacher decision was right? Why?

- (c) What value of Seema is shown here?

## Question 2.

On Rahul's birthday, his mother prepared many dishes for him. After having their meal, they found that many food items were leftover. Rahul's mother kept these leftovers in a air-tight container and refrigerate them.

- (a) What is food preservation?
- (b) What will happen to the food if it is not refrigerated?

© What is the role of refrigeration in food preservation method?

Answer:

- (a) The methods used for prevention of spoiling of food by the action of microbes is called food preservation.
- (b) The food will get spoil and emit bad smell with changed colour or taste.

© Refrigeration retards or slow down the growth of microorganisms and enzyme activity on food. Thus, it prevents spoilage of food.

- (c) Rahul's mother is intelligent, economical, have scientific aptitude towards preservation of food.

## Synthetic Fibres

### Question 1.

Name a natural fibre.

### Question 2.

Name the basic component of animal fibres.

### Question 3

Name some artificial fibres..

### Question 4.



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Which fibre is known as artificial silk?

Question 5.

In which country was rayon first time synthesised?

Question 6.

Name the first fully synthetic fibre.

Question 7.

Name the largest producer unit of rayon in the world.

Question 8.

Name a common variety of polyester.

Question 9.

What is ester?

Question 10.

Name some objects made of plastics.

Question 11

What is polythene?.

Question 12.

Give some examples of thermoplastics.

Question 13.

Give some examples of thermosetting plastics.

Question 14.

What is the full form of PVC?

Question 15.

What is 4R's?.

Question 16.

Whether cotton cloth a biodegradable or non-biodegradable?

Question 17.

Name the form of polyester which is replacing materials like glass and used for making bottles and jars.

Question 18.

Which of two is thermosetting plastic—PVC or bakelite?



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Question 19.

Name a synthetic fibre which is polyamide.

Question 20.

Give the name of a plastic used for making fibres.

Synthetic Fibres and Plastics: Short Answer Type

Question 1.

What are polymers?.

Question 2.

What is cellulose?

Question 3.

List the two ways in which synthetic fibres can be synthesised.

Question 4.

What is rayon?

Answer: Rayon is a man-made fibre which is produced by the chemical processing of wood pulp, i.e., a natural substance.

Question 5.

List two uses of rayon.

Question 6

List any two properties of rayon.

Question 7.

Draw a diagram to show the:

- (a) Linear arrangement of units in plastic.
- (b) Cross-linked arrangement of units in plastic.

Question 8.

Write some advantages of synthetic fibres.

Question 9.

What are plastics?

Question 10.

What is plasticity?

Question 11.



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What are thermosetting plastics?

Question 12.

List any three properties of plastics.

Question 13.

What are the uses of polyester?

Question 14.

Why is it advised not to wear synthetic clothes while working in a laboratory or working with fire in the kitchen?

Question 15.

Write some properties and uses of melamine.

Long Answer Type

Question 1.

Describe about nylon. Write its uses and properties.

Question 2.

Write the advantages of synthetic fibres.

Answer:

Question 3.

List the common varieties of polyester. Also mention the natural fibres which are used for blending to enhance their properties.

Question 4.

Explain the properties of plastics.

Question 5.

‘Plastics are hazard to environment’. Explain this statement.

Question 8.

List the strategies for plastic waste management.

## संस्कृत

कोई भी पांच श्लोक संस्कृत में अर्थ सहित चार्ट पेपर पर लिखिए।

अस्मद् तथा युष्मद् शब्द के रूप संस्कृत कापी में लिखिए।



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## **COMPUTER:**

“Make a Project report on given topic.

‘How information travels on Internet. What types of Hardware is used for this’.

OR

‘Various Google applications (products), their need and their history and uses.’

Make a detail project report on the given topic. Project should be hand written. Printouts will not be accepted.