



# SACRED HEART SCHOOL

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## SUMMER VACATION (2020-21)

### Homework

Class – VII

#### Math

- The sum of two integers is  $-12$ . If one of them is  $43$ , find the other.
- The difference of an integer  $p$  and  $-8$  is  $3$ . Find the value of  $p$ .
- Add the product of  $(-16)$  and  $(-9)$  to the quotient of  $(-132)$  by  $6$ .
- By what number should  $(-240)$  be divided to obtain  $16$ ?
- What should be divided by  $(-7)$  to obtain  $12$ ?
- Evaluate:
  - $(-6) \times (-15) \times (-5)$
  - $(-8) \times (-5) \times 9$
  - $9 \times (-12) \times 10$
  - $(-75) \times 8$
  - $(-5) \times (-5) \times (-5) \dots$  taken 5 times
  - $(-1) \times (-1) \times (-1) \times \dots$  taken 25 times
- Evaluate:
  - $(-16) \times 12 + (-16) \times 8$
  - $25 \times (-33) + 25 \times (-17)$
  - $(-19) \times (-25) + (-19) \times (-15)$
  - $(-47) \times 68 - (-47) \times 38$
  - $(-105) \div 21$
  - $(-168) \div (-14)$
  - $0 \div (-34)$
  - $37 \div 0$
- Define: (i) Fractions (ii) Vulgar fractions (iii) Improper fractions  
Give two examples of each.
- What should be added to  $6\frac{3}{5}$  to get  $15$ ?
- Simplify:  $9\frac{5}{6} - 4\frac{3}{8} + 2\frac{7}{12}$ .
- Find: (i)  $\frac{12}{25}$  of a litre (ii)  $\frac{5}{8}$  of a kilogram (iii)  $\frac{3}{5}$  of an hour
- Milk is sold at ₹  $37\frac{3}{4}$  per litre. Find the cost of  $6\frac{2}{5}$  litres of milk.
- The cost of  $5\frac{1}{4}$  kg of mangoes is ₹  $189$ . At what rate per kg are the mangoes being sold?
- Simplify: (i)  $1\frac{3}{4} \times 2\frac{2}{5} \times 3\frac{4}{7}$  (ii)  $5\frac{5}{9} \div 3\frac{1}{3}$
- By what number should  $6\frac{2}{9}$  be divided to obtain  $4\frac{2}{3}$ ?
- Each side of a square is  $5\frac{2}{3}$  m long. Find its area.
- If the cost of a pen is ₹  $32.50$ , find the cost of  $24$  such pens.
- A bus can cover  $64.5$  km in an hour. How much distance can it cover in  $18$  hours?
- Find the product  $0.68 \times 6.5 \times 0.04$ .
- Each bag of cement weighs  $48.5$  kg. How many such bags will weigh  $2231$  kg?
- Divide:
  - $0.196$  by  $1.4$
  - $39.168$  by  $1.2$
  - $0.228$  by  $0.38$
- The product of two decimals is  $1.824$ . If one of them is  $0.64$ , find the other.
- How many pieces of plywood, each  $0.45$  cm thick, are required to make a pile  $2.43$  m high?
- Each side of a polygon is  $3.8$  cm in length and its perimeter is  $22.8$  cm. How many sides does the polygon have?

## English

### Answer these questions.

1. Imagine you are the king of the story "Three questions" and you are narrating the incident of your meeting with the hermit. Write the incident in your words.
2. Suppose you got a special gift by someone in your family on your birthday. Write your feelings about that gift in the form of a diary entry.
3. You may have seen a squirrel. Write a short paragraph on it.
4. What problems are you likely to face if you keep ants as pets?
5. Why is an ant called a tiny teacher? Give your reasons.
6. Write an article on the topic "Doctors are great Healers".
7. Write and learn twenty proverbs and similes.
8. Write some sentences of your habitual action and routine.
9. Write a paragraph on your favourite sportsperson. Say why you like him/her.
10. Write about hobbies, habits and other personality traits of the person you like the most in your family.
11. How did you celebrate Mother's day? What is the importance of mother in your life?
12. Write your experiences of online classes.
13. You must have seen Ramayana and Mahabharata during lockdown. What moral did you learn from these serials?

## Science

### 1) Define the following terms:-

- a) Symbiosis
- b) Assimilation
- c) Rumination
- d) Incubation
- e) Reeling of silk
- f) Shearing
- g) Radiation
- h) Cocoon
- l) Selective breeding
- j) Plaque
- k) Insectivorous

### 2) Differentiate between the following terms:-

- a) Autotrophic nutrition and heterotrophic nutrition
- b) Parasites and saprotrophs
- c) Conduction and convection
- d) Clinical and laboratory thermometer

### 3) Short answer type questions:-

- a) How do leguminous plants help to replenish nitrogen?
- b) Why do farmers use fertilizers?
- c) How is water transported to the leaves?
- d) What role do villi perform in the small intestine?
- e) Give five suggestions to keep your teeth and gums healthy.
- f) Name 5 factors on which the quality of wool is judged.
- g) Mention two uses of conductors and insulators.
- h) Give three examples of heat transfer by radiation.
- 5) Give a brief description of the process of synthesis of food in green plants.
- 6) Describe the role of leaves in photosynthesis.
- 7) Describe rumination.
- 8) What are the occupational hazards workers face in the silk and wool industry?

- 9) Describe the cycle of silk moth.
- 10) Why is mercury used as thermometric liquid?
- 11) Describe land breeze and sea breeze with suitable diagram.
- 12) Describe nutrition in amoeba with a suitable diagram.

## Social Science

1. Between chronicles of the court historians and accounts of the foreign travellers, which you think more reliable historical source? Why?
2. Imagine, you are a traveller. Describe the important places that you visited. (Write in a form of diary/Travelogue)
3. What was the difference in the intension of the invasions of Mahmud Ghazni and Muhammad Ghori?
4. Write a short note on the Chola Administration.
5. Give any two examples of ecosystem with diagram.
6. Write all the fundamental rights granted by the constitution to the Indian citizen.
7. Write about some initiatives taken by the government to uplift the condition of girls/women in India.
8. Write at least five slogans which raise awareness about different environmental issues.
9. You must have grandparents. How do they help you? And how do you take care of them?
10. If you see someone who has bad eyesight and facing difficulty in crossing the road, how would you help him or her?
11. Write three precautions to prevent COVID-19
12. How do you spend your time with your family during lockdown?
13. Have you helped anyone during lockdown? How did you feel by doing this?
14. Learn all the questions' answer of chapter 1 and 2 of history, civics and geography.

## Hindi

1. रहीम के पांच दोहे को लिखकर उनके अर्थ लिखें ।
2. आपUS घर में लॉक डाउन के दौरान क्या-क्या काम किया? लगभग 10 दिनों का दिनचर्या लिखें ।
3. दिए गए लोकोक्ति के आधार पर अनुच्छेद लिखें –  
(क) अकेला चना भाड़ नहीं फोड़ सकता  
(ख) अब पछताए होत क्या जब चिड़िया चुग गई खेत ।
- 4 – दादी मां पाठ का सारांश लिखें ।
- 5 – नदियों में बढ़ती हुई गंदगी को देखते हुए आप उनकी साफ- सफाई के विषय में क्या उपाय कर सकते हैं ? विस्तार से लिखें ।

## Sanskrit

1. 'सुभाषितानि' पाठ का श्लोक एवं अर्थ याद करें एवं लिखें ।
2. 'दुर्बुद्धिः विनश्यति' पाठ का सारांश हिन्दी में लिखें ।
3. 'उच्चारण स्थान' के सूत्रों को लिखें ।
4. दृश धातु लट्, लङ्, लृट्, लोट् एवं विधिलिङ्ग में लिखें एवं याद करें ।
5. सन्धि – विच्छेद करें–

क. देवागमः

ख. महीन्द्रः

ग. देवार्चनम्

घ. गंगोदकम्

ङ. हिमर्तुः

च. हितोपदेशः

छ. प्रत्यनुसारम्

ज. अन्वेषणम्

झ. अभ्युदयः

ञ. तन्वीश्वरः