



Kulachi Hansraj Model School

Holidays Homework, Class VII  
Session: 2019-20



‘Holidays Homework’ is an attempt to channelize the creative energy of the children. Doing it in the right spirit with enthusiasm will make it a great learning experience. Make sure that your work is neat, presentable and original. Adhere to the guidelines. Enjoy doing all the tasks !

**THINGS TO REMEMBER:**

- Always start your day with prayer.
- Wake up on time and go to a park. Play and observe the beauty of nature.
- Help your parents at home and spend time with family.
- Read storybooks, newspaper and children’s magazine.
- Use your time constructively and pursue your hobbies in leisure time.
- Manage your work properly. Make a time-table of the daily activities and follow the same.
- Revise all the work that has been done in class.
- Finish your holidays homework well in advance.
- Travel and explore places as it widens the horizons of your mind.
- Try to converse in English with your parents and everyone else because the best way to learn a language is to use it.

Subject	Task
Mathematics	<p>Task 1 : Project Work (10 marks)</p> <p>Following project work is to be done in on A4 size sheets.</p> <p>1. Make a card using poster colour and thread. Watch the video <a href="https://www.youtube.com/watch?v=3hgK1MR_nxU">https://www.youtube.com/watch?v=3hgK1MR_nxU</a></p>

What do you observe?

2. Collect 5 objects from nature or your surrounding displaying line of symmetry Complete the following table. Watch the video

<https://youtu.be/J-ykLPy9Un8>

Object	Shape	No. of lines of symmetry	No. of horizontal lines of symmetry	No. of vertical lines of symmetry

3. Write 2 alphabets and 2 digits from 1 to 10 having 2 lines of symmetry.  
( only 2 alphabets on one sheet and 2 digits on other page)

Also create 3 symmetrical patterns/designs using

1) Drawing 2) paper cutting

#### Useful weblinks

<https://m.youtube.com/watch?v=zjON9aEuAxQ>

<https://m.youtube.com/watch?v=orZly5llXhc>

(The above links help you to understand how to make the above models and for other models, videos are available on youtube)

#### Task 2 : Assignments (10 marks)

Do the assignments of chapter Rational Numbers and Operations on Rational Numbers from Academic Support and the attached worksheet below in assignment register as Holidays Homework. (10 marks)

#### Practice Worksheet 1

1) Represent the following rational numbers on the number line:

a)  $-\frac{3}{4}$       b)  $\frac{31}{-6}$       c)  $-\frac{1}{2}$       d)  $\frac{3}{4}$

2) Write the following rational numbers in the standard form:

a)  $\frac{5}{15}$       b)  $-\frac{24}{40}$       c)  $\frac{33}{-77}$       d)  $-\frac{45}{-105}$

3) Compare the following rational numbers:

1)  $-\frac{9}{27}$ ,  $\frac{6}{-18}$       2)  $-\frac{5}{7}$ ,  $\frac{10}{-6}$

3)  $\frac{3}{-8}$ ,  $-\frac{15}{40}$       4)  $-\frac{11}{7}$ ,  $\frac{33}{21}$

4) Arrange the following rational numbers in the descending order:

1)  $2/-3$ ,  $-4/9$ ,  $-5/12$ ,  $7/-18$

2)  $3/-4$ ,  $-5/12$ ,  $-7/16$ ,  $9/-24$

5) Arrange the following rational numbers in the ascending order:

1)  $2/5$ ,  $1/3$ ,  $3/4$ ,  $1/6$       2)  $5/6$ ,  $7/8$ ,  $11/12$ ,  $3/10$

6) Fill in the blanks by the correct symbol  $>$ ,  $=$  or  $<$  :

1)  $| 3/4 |$  -----  $| 1/2 |$       2)  $| -1/2 |$  -----  $| -3/4 |$

7) Add: 1)  $3/7$  and  $-9/7$       2)  $5/9$  and  $7/-9$       3)  $2/5$ ,  $5/-9$  and  $-6/15$

8) Simplify: 1)  $-2 + ( 3 / 8 ) + ( - 1 / 5 )$  , 2)  $(2/3) + ( -7/11 ) + ( -1/4 )$

9) Verify that  $a + b = b + a$  by taking (1)  $a = -7/5$ ,  $b = 2/7$       (2)  $a = -1$  ,  $b = -2/3$

10) Verify that  $(a+b)+c.=a+(b+c)$  by taking

(1)  $a = -2$  ,  $b = -2/3$  ,  $c = -3/4$

(2)  $a = -12$ ,  $b = -9/11$ ,  $c = 7/-12$

11) Simplify the following:

1)  $(2/3) + (-4/5) + 1 + (-2/3) + (-11/5)$

2)  $(5/8) + (-8/9) + 0 + (-13/3) + (17/24)$

12) Subtract : 1)  $(-3/4)$  from  $(1/2)$       2)  $(5/8)$  from  $(-3/14)$

13) What should be added to  $(-7/20)$  to get  $(-2/5)$ ?

14) The sum of two rational numbers is  $(-3/7)$ . If one of the number is  $(-5/8)$  find the other.

15) The sum of two rational numbers is  $(-5/8)$ . If one of the number is  $(-6/11)$ , find the other number.

16) To which number should  $(2/3)$  be added to give  $(-11/4)$ ?

17) From which number should  $(-11/4)$  be subtracted to give  $(-11/4)$ ?

18) Find the product of :

1)  $5/9$ ,  $-2/5$  2)  $-5$ ,  $-3/15$

19) Multiply, and give the product in the standard form:

- 1)  $-\frac{6}{25}$  by  $\frac{50}{24}$     2)  $\frac{3}{11}$  by 22  
3)  $\frac{21}{5}$  by  $-\frac{15}{21}$     4)  $-36$  by  $-\frac{5}{9}$

20) Verify the property  $a \times b = b \times a$  by taking :

- 1)  $a = (-\frac{12}{7})$ ,  $b = (-\frac{21}{5})$     2)  $a = 0$ ,  $b = (-\frac{13}{3})$

21) Verify the property  $a \times (b \times c) = (a \times b) \times c$  by taking

- 1)  $a = (\frac{7}{5})$ ,  $b = (-\frac{9}{4})$ ,  $c = (\frac{1}{2})$   
2)  $a = 1$ ,  $b = (-\frac{13}{5})$ ,  $c = (\frac{3}{5})$

22) Verify the property  $a \times (b+c) = (a \times b) + (a \times c)$  by taking:

- 1)  $a = (\frac{1}{3})$ ,  $b = 0$ ,  $c = (-\frac{7}{6})$   
2)  $a = -2$ ,  $b = (\frac{9}{5})$ ,  $c = (-\frac{2}{15})$

23) Verify  $(x \times y)^{-1} = x^{-1} \times y^{-1}$

- 1)  $x = \frac{1}{2}$ ,  $y = \frac{1}{3}$     2)  $x = -\frac{3}{4}$ ,  $y = -\frac{1}{8}$

24) Verify that  $|x + y| \leq |x| + |y|$  by taking  $x = \frac{13}{4}$  and  $y = \frac{3}{2}$

25) Verify that  $|x + y| = |x| + |y|$  by taking  $x = \frac{1}{2}$  and  $y = \frac{1}{4}$

26) The product of two rational numbers is 6. If one of them is 8, find the other number.

27) By what number should  $(-\frac{6}{11})$  be multiplied to get  $(-\frac{32}{11})$ ?

28) Find the rational number between:

- 1) 3 and 4    2) -7 and -6

29) Find three rational numbers between:

- 1) -5 and 8    2)  $(-\frac{1}{3})$  and  $(\frac{1}{2})$

30) State whether true or false: (practice worksheet on rational numbers)

- 1) Absolute value of a rational number is either positive or 0.  
2) There are countless rational numbers with absolute value less than 5.  
3) The absolute value of 0 is 0.

### Practice Worksheet 2

Solve the following word problems on rational numbers.

1. From a rope 11 m long, two pieces of lengths  $\frac{13}{5}$  m and  $\frac{33}{10}$  m are cut off. What is the length of the remaining rope?

2. A drum full of rice weighs  $24\frac{1}{6}$  kg. If the empty drum weighs  $5\frac{5}{4}$  kg, find the weight of rice in the drum.
3. A basket contains three types of fruits weighing  $5\frac{8}{3}$  kg in all. If  $7\frac{3}{9}$  kg of these be apples,  $1\frac{9}{6}$  kg be oranges and the rest pears. What is the weight of the pears in the basket?
4. On one day a rickshaw puller earned Rs.80. Out of his earnings he spent Rs. $6\frac{8}{5}$  on tea and snacks, Rs. $5\frac{1}{2}$  on food and Rs. $2\frac{2}{5}$  on repairs of the rickshaw. How much did he save on that day?
5. Find the cost of  $17\frac{7}{5}$  meters of cloth at Rs. $14\frac{7}{4}$  per meter.
6. A car is moving at an average speed of  $20\frac{2}{5}$  km/hr. How much distance will it cover in  $15\frac{1}{2}$  hours?
7. Find the area of a rectangular park which is  $18\frac{3}{5}$  m long and  $5\frac{0}{3}$  m broad.
8. Find the area of a square plot of land whose each side measures  $17\frac{7}{2}$  meters.
9. One liter of petrol costs Rs. $18\frac{7}{4}$ . What is the cost of 35 liters of petrol?
10. An airplane covers 1020 km in an hour. How much distance will it cover in  $25\frac{5}{6}$  hours?
11. The cost of  $7\frac{7}{2}$  meters of cloth is Rs. $23\frac{1}{4}$ . What is the cost of one meter of cloth?
12. A cord of length  $14\frac{3}{2}$  m has been cut into 26 pieces of equal length. What is the length of each piece?
13. The area of a room is  $26\frac{1}{4}$  m. If its breadth is  $8\frac{7}{16}$  meters, what is its length?
14. The product of two rational numbers is  $4\frac{8}{5}$ . If one of the rational number is  $6\frac{6}{7}$ , find the other rational number.
15. Rita had Rs.300. She spent  $\frac{1}{3}$  of her money on notebooks and  $\frac{1}{4}$  of the remainder on stationery items. How much money is left with her?
16. Adrian earns \$16000 per month. He spends  $\frac{1}{4}$  of his income on food;  $\frac{3}{10}$  of the remainder on house rent and  $\frac{5}{21}$  of the remainder on the education of

children. How much money is still left with him?

**Learning Work**

Learn tables from 2 to 20

Learn squares of numbers from 2 to 30

Parameters for assessment

Completeness (for Assignment)	4 marks
Correctness (for Assignment)	4 marks
Timely submission (for Assignment)	2 marks
Conceptual knowledge (for Project)	4 marks
Creativity (for Project)	3 marks
Completion on time(for project)	3 marks

Do ASM for the chapters covered.

**English**

**a) ISA COLLABORATIVE PROJECT:** Prepare a creative ‘Wall Magazine’ on the topic “Rivers: The Nectar of Life” (Save water. Save Future). Make it colourful and exhibit your creativity in the best possible manner. You may use sheet(s) of any colour, any size, make it on a cartridge sheet, ivory sheet etc. Keep in mind the following points:

- Origin of rivers Amazon, Thames and Ganges.
- Trace the areas they pass and nourish.
- Cleanliness factor: How clean it is.
- Projects to clean and maintain them.

The project carries **10 marks**. Keep in mind the following **parameters for assessment**:

- Content: 3 Marks , Presentation: 3 Marks, Originality: 2 Marks  
Creativity: 2 Marks

**b) INTEGRATED GRAMMAR WORKSHEET**

**(10 Marks, to be attempted in English register)**

**Ques1:** The following passage has not been edited. Write the incorrect and the correct word: (4 Marks)

Working for fourteen hours the day might

(a) \_\_\_\_\_

seem impossible to many. So it has many

(b) \_\_\_\_\_

benefits. These who work for so long

(c) \_\_\_\_\_

achieve grand success but fame

(d) \_\_\_\_\_

that nobody normal achieves.

(e) \_\_\_\_\_

Unless you want to be a great man, you

(f) \_\_\_\_\_

will have to translate a impossible into

(g) \_\_\_\_\_

the possible. As others sleep you should work

(h) \_\_\_\_\_

**Ques2:** The following passage has not been edited. Write the incorrect and the correct word: (4 Marks)

India is very fortunate that it have many \_\_\_\_\_ a)  
 \_\_\_\_\_  
 rivers. Their famous rivers are Sutlej, b)  
 \_\_\_\_\_  
 Ganga, Yamuna or Narmada. Some of c)  
 \_\_\_\_\_  
 the river like Ganga, which d)  
 \_\_\_\_\_  
 originated from the Himalayas, flow e)  
 \_\_\_\_\_  
 throughout a year. They provide water  
 f) \_\_\_\_\_  
 for both drinking and irrigational purpose. g)  
 \_\_\_\_\_  
 Some rivers in India are consider very h)  
 \_\_\_\_\_  
 sacred and are worshipped.

**Ques3:** Unjumble the following words/phrases to form meaningful sentences:

(2

Marks)

(a)love / of others / good manners / and / win the / respect

(b)when / best / they can / one is / be learnt / young

(c)saves us / turns away / soft answer / anger / and / pitfalls / from many

(d)who is / stranger / respectful / a person / even / like

c) Revise the syllabus done in the class. Read the following literature chapters thoroughly as a '**Recapitulation Activity**' at home.

-Monkey Trouble

-Birdie, Will You Pet?

-A Hero

d) Make a beautiful '**Bookmark**' of size 2\*7 inches using a thick sheet. Write a quote related to reading on it. Laminate your bookmark. You can even put a tag to it. Be as creative as you can!

e) "**Reading is food for the mind and soul!!**"

Read newspaper, magazine or any book of your choice. Try to grasp the meaning of new vocabulary words. Try to converse in English with your parents/siblings at home and use the new words learnt.

<p>Hindi</p>	<p><b>ग्रीष्मावकाश गृहकार्य</b></p> <p><b>विषय: हिंदी</b> <b>कक्षा: सातवीं</b> <b>पूर्णांक: 20</b></p> <p>(प्रश्न 1 स्कैप फाइल में करना है और बाकी के तीनों प्रश्न एक कार्य पुस्तिका में करने हैं )</p> <p><b>प्रश्न1. परियोजना कार्य</b> (10) <b>विषय:</b> परिवार के किसी भी ऐसे सदस्य का परिचय <b>चित्र सहित</b> जिसे आप अपना आदर्श मानते हो -</p> <p><b>संकेत बिंदु:</b></p> <ul style="list-style-type: none"> <li>● मनपसंद रंग</li> <li>● मनपसंद पहनावा</li> <li>● उनका स्वभाव</li> <li>● उनकी शिक्षा ( स्कूल और कॉलेज के बारे में )</li> <li>● उनकी रुचियाँ</li> </ul> <p><b>प्रश्न2. अनुच्छेद लेखन</b> (4)</p> <p>क. आतंकवाद देश के लिए एक बड़ी चुनौती ख. मन के हारे हार मन के जीते जीते ग. मजहब नहीं सिखाता आपस में बैर रखना घ. जीवन में लक्ष्य की भूमिका</p> <p><b>प्रश्न3.</b> कोई भी हिंदी समाचार पत्र, पत्रिका अथवा कहानी की पुस्तक पढ़िए और उसमें से बीस नए शब्द छाँटकर उनके अर्थ लिखिए। (2)</p> <p><b>प्रश्न4. नीचे दिए गए विषयों पर दो मित्रों की बातचीत को संवाद के रूप में लिखिए - (4)</b></p> <ul style="list-style-type: none"> <li>● घर के और बाहर के भोजन में क्या अंतर है और माँ के हाथ के बने भोजन की विशेषता ।</li> <li>● मनुष्य प्रकृति और संबंधों से दूर होकर मोबाइल की दुनिया में खोता जा रहा है ।</li> </ul>
<p>Social Science</p>	<p>A)Project Work (10 marks)</p> <p>Make a project on the topic ‘Major Religions’ considering the following heads: (Cover five religions in the project)</p> <p>Founder      Basic Principles      Holy festival      Book</p> <p>Values that can be imbibed by Religion</p> <p><b>Parameters for assessment of Project</b></p> <p>Content - 3 marks    Creativity - 3 marks    Presentation - 2 marks</p> <p>Timely Submission - 2 marks</p>

B) Prepare a wall magazine on an A3 size sheet depicting famous three bhakti saints and two Sufi saints along with their principles. (5)

**Parameters for assessment of Poster**

Content - 2 marks    Creativity - 1 mark    Presentation - 1 mark  
Timely submission - 1 mark

C)The following chapters covered in the class must be completed in Academic support material: (5)

- Components of environment
- Medieval period
- The earth and the changes on it
- The rise of small kingdoms in north India
- Democracy and equality.

**Science**

**Physics - Chemistry**

1. Make table of all the ions ( anions and cations) by writing their Names and symbols.
  
2. Write the names and formulas of ten common compounds used At home

**PARAMETERS**

- |                        |         |
|------------------------|---------|
| 1. IONS AND SYMBOLS    | 5 MARKS |
| 2. FORMULA AND SYMBOLS | 5 MARKS |

To be done on A4 Sheet

**Biology (10 marks)**

**Activity:**

Keep a stale moist piece of bread in a warm corner of the kitchen and observe it for 3 to 4 days can you identify the organism growing on the piece of bread? Draw its diagram on a A4 Sheet and identify its mode of nutrition and bring the activity to your classroom after the vacations .

**Parameters for assessment:**

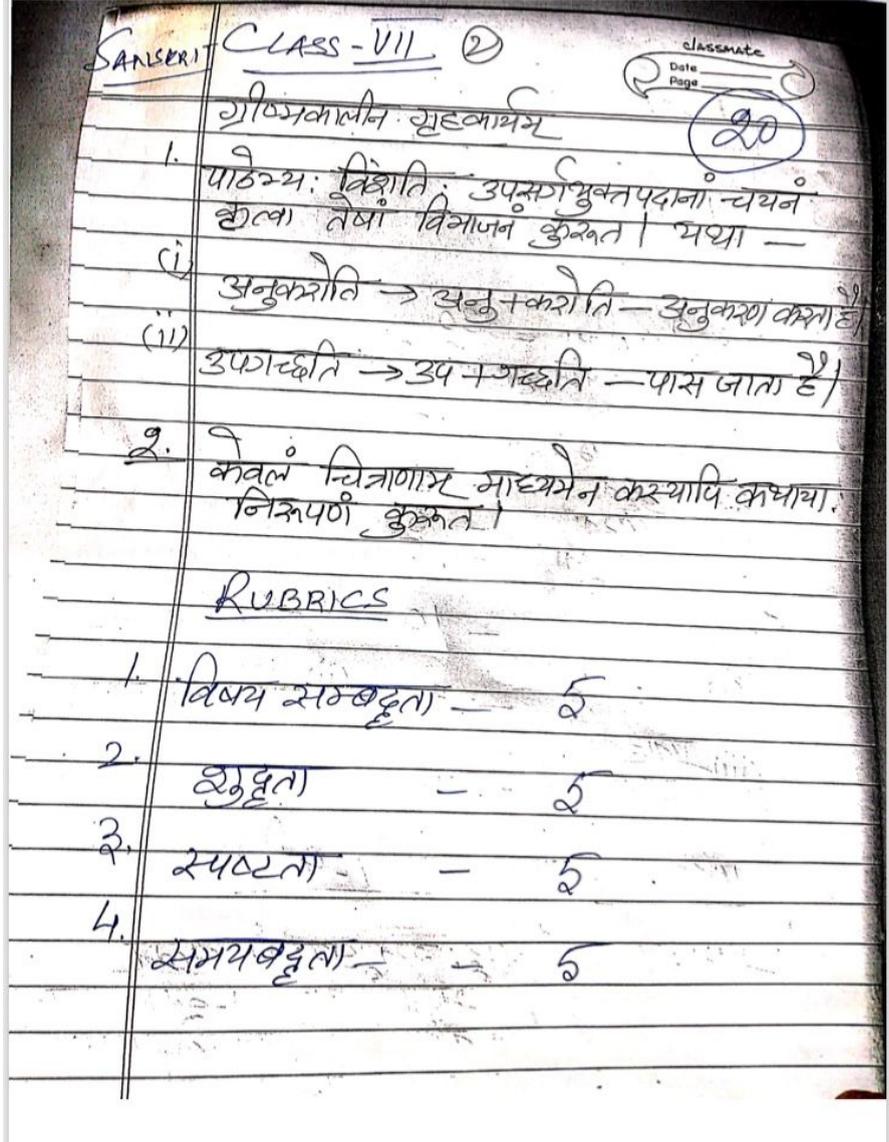
Activity                    3 marks  
Identification        2 marks  
Diagram                3 marks  
Presentation        2 marks

\*Note. Diagram and identification part to done on A4 Size coloured sheet.

**The following chapters covered in the class must be completed in Academic support material :**

- 1) Nutrition in living organisms - Plants
- 2) Chemical substances and processes

Sanskrit



German

1. Revise the concepts done in the club classes.
2. Write five colours name in German.
3. Draw the flag of Germany and India Color them and label the colours in German.
4. Write names of five fruits and vegetables in German.

**Note:**

\*You may use A4 size sheets of different colours.

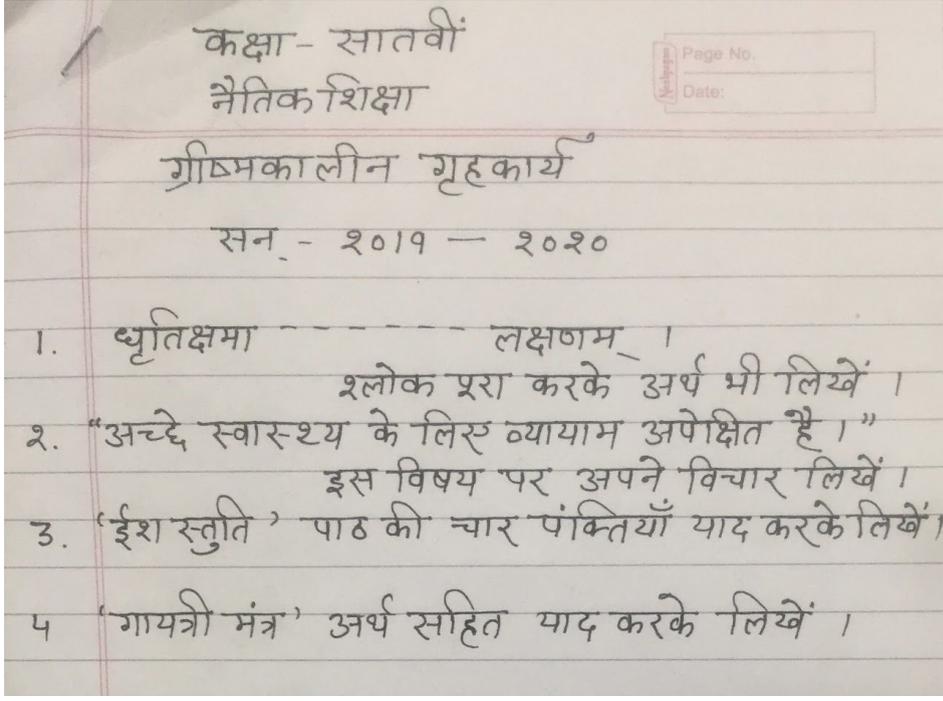
Computer

Collect information and pictures and present it on an A3 size Ivory Sheet on the topic given below according to the Roll numbers.

Roll No. Topic

1-5. Robotics

	<p>6-10. Wearable Devices</p> <p>11-15. Mind Reading Machine</p> <p>16-20. Virtual Reality/ Virtual World</p> <p>21-25. Artificial Intelligence</p> <p>26-30. Cloud Computing</p> <p>31-35. Wi-Fi</p> <p>36-40. Wireless charging standards</p> <p>41-45. Technological advancements in rural areas</p> <p>46-50 Above. Pros and Cons of Social Media</p> <p>Parameters for assessment: Creativity: 4 ; Presentation: 4 ; Timely submission: 2</p>						
<b>Art</b>	<p><b>Time to exhibit your creativity !!!</b></p> <p>-Make 'ANY TWO' out of the following:</p> <ul style="list-style-type: none"> <li>● A keychain</li> <li>● Jewellery using quilling</li> <li>● Pen stand</li> </ul>						
<b>ATL Club</b>	Prepare one Greeting card using paper circuit. Theme: Robotics						
<b>General Knowledge</b>	<p>Students have to maintain a separate notebook maintaining the record of current affairs of each day starting from 20 May, 2019. The following template needs to be followed-</p> <p>National News -</p> <p>International News -</p> <p>Sports or any other -</p> <p><b><i>Note: After summer vacation KHMS G.K. Quiz will be conducted. The syllabus is as follows:</i></b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">Language &amp; Literature</td> <td style="text-align: right;">1-7</td> </tr> <tr> <td>Environment Around</td> <td style="text-align: right;">17-24</td> </tr> <tr> <td>Current Affairs</td> <td style="text-align: right;">May-June-2019</td> </tr> </table>	Language & Literature	1-7	Environment Around	17-24	Current Affairs	May-June-2019
Language & Literature	1-7						
Environment Around	17-24						
Current Affairs	May-June-2019						



All the best !! Spend your vacation joyfully and in the most constructive manner :)

