**THE ROYAL COLLEGE**

**SUMMER HOLIDAY HOMEWORK**

**(2018-2019)**

**CLASS-VII**

**Dear Parents,**

**PLEASE MAKE YOUR WARD COMPLETE THEIR HOLIDAY HOMEWORK IN NEAT AND SYSTEMATIC WAY BECAUSE IT CARRIES 20 MARKS IN EACH SUBJECT FOR ASSESSMENT.**

**MAKE A PRESENTATION IN POWER POINT ON THE TOPIC GIVEN BY YOUR TEACHER WITH IMAGE OR PICTURES IN SIMPLE LANGUAGE OF AT LEAST 8 SLIDES AND AT MOST 12 SLIDES.**

\*Do one good deed everyday and write in a scrap book.

 ENGLISH

1. Read chapter 1-5 from your supplementary reader book “The Alien’s Hand”. Write summaries of all the chapter and do all relevant exercises and Questions & Answers In a separate notebook.
2. Write an essay of about 100-150 words on “True Friendship”

  **HINDI**

1. Read (page no:- 1 to 61) from Bal Mahabharat and Write 10 difficult words and frame two Questions of Each Chapter.
2. Answer the Questions 1 to 12.(Page no:-97)

**MATHS**

Q1 Complete the following

1. 5 = x

20 4

1. 10 = x

20 4

1. 15 = x

20 20

 Q2 Solve the following

1. 16 ÷ 2 = ------- and 62 \* ½ = --------
2. 18 ÷ ½ = ------- and 19 \* 2 = ---------
3. 27 ÷ 5/3 = ------- and 45 \* 3/5 = --------

Q3. Fill in the blanks:

1. 6cm = \_\_\_\_\_\_m
2. 1.23 kg = \_\_\_\_\_\_g
3. \_\_\_\_\_ \* 1000 = 6.3
4. 78mm = \_\_\_\_\_kg

Q4 State true or false

1. 17 + 15 = 15 + (-17)
2. 64 – (64) = 0
3. [(-17) + 8] + 20 = [8 + (-17)] + 20

Q5. Fill in the boxes with appropriate answer:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Base | Exponent | Exponent Form | Value |
| a. | 54 |  |  |  |  |
| b. | 23 |  |  |  |  |
| c. | 65 |  |  |  |  |
| d. | 73 |  |  |  |  |

Q6. There are 120 seats in the balcony of a theater. If this is 1/5 of the total seats, what is the total number of seats in the theater?

Q7. In a class of 50 students, 1/5 of the total play football, 3/5 of the total play cricket, and remaining play basketball. Find the number of students who play:

1. Basketball
2. Football
3. Cricket

Q8. Samson carries a bag weighing 5.5 kg. How many grams is it?

Q9. Shaloo purchased three books at Rs. 37.60 each and five pens at Rs. 5.15 each . She gave the shopkeeper a five hundred rupee note. How much money did she get back from the shopkeeper?

Q10. The sum of two integers is -123. If one of them is 325, what is the other number?

Q11 a. Write in ascending order:

1. 0.4, 0.7, 0.3, 0.9
2. 0.3, 0.21, 0.6, 0.41

b. Write in descending order:

 i. 0.31, 0.4, 0.087, 1

ii. 0.6, 0.44, 0.5, 0.09

Q12 Find:

1. 1/3 of 27
2. 4/5 of 50
3. 2/5 of 35

Q13 Write the integers possible between the two given integers:

1. 2 and -5
2. -60 and -56
3. 9 and 10
4. 18 and -17

Q14 The sum of two rational numbers is 23/3. If one of the number is 19/6. Find the other number.

Q15 Simplify:

1. 0.03 \* 0.05
2. 4.96 ÷0.004
3. 0.01 \* 4\* 0.5
4. 20.74 + 0.674 + 0.09

Q16 Using laws of exponents, simplify:

1. 510

512

1. 45 ÷ 42
2. 27 \* 39

25\* 36

Q17. Express in exponential form:

1. (-2p3)4
2. (8x3)0
3. [(3/4)-2]3

Q18. Write additive inverse of -3/4.

Q19 Multiplicative inverse of 61/3 is?

Q20 Write 5 rational number whose absolute value is 5/9.

Q21. Find reciprocal of 4/5 \* (3/-8).

Q22. What should be added to -5/11 to get 26/33?

Q23. A is a digit and 3A18 is a multiple of 6. Find the value of A.

Q24 Subtract 62/3 from the sum of -3/7 and 2?

Q25 Simplify:

9/5 \* (-2/27 ) + 7/30

Q26. Divide the sum of 5/21 and 4/7 by their difference?

Q27. Divide the difference of 12/5 and -16/20 by their product?

Q28 Hypotenuse of a right angled triangle is 17cm. If one of its side is 8cm. Find the other?

Q29 The vertical angle of an isocelese triangle is 80˚. Find the base angle.

Q30. Find x and y in the given figure:

 A

 A 30˚

 X E

 y x 30˚

 B C D D B

Q31. A man goes 5m in east and then 12m in north direction. Find the distance from the starting point?

Q32. In the given figure triangle PQR is isocelese with PQ=PR. LM is parallel to QR with L on PQ and M on PR. Give reasons for following:

1. Angle Q = Angle R
2. Angle PLM = Angle Q
3. Angle PML = Angle R
4. Angle PLM = Angle PML
5. Triangle PLM is isosceles.

 P

 L M

 Q R

Q33. Write about two mathematician at least 100-150 words?

Q34. Find out the square root of:

1. 31684
2. 88209

Q35. ¾ ÷ 7/4 of 2/3 \* 7/3 + 5/6

Q36. 1/5 ÷ 1/5 of 1/5

 1/5 of 1/5 ÷ 1/5

Q37. 15/2 – [7/4 ÷ { 5/4 – ½ ( 3/2 – 1/3 – 1/6)}]

Q38. Find out the squares without actual multiplication:

1. (106)2
2. (98)2

Q39. What is the number nearest to 3609, which is completely divisible by 21?

Q40. What least number of five digits is exactly divisible by 41?

  **S.S.T**

\* Write all the answers of the following questions in about 50-60 words in a separate notebook.

1-Explain the importance of the lithosphere and hydrosphere for living beings.

2-Explain any one ecosystem with examples.

3-How do human beings effect the environment?

4-What are autotrophs?

5-What is the difference between autotrophs and heterotrophs?

6-What is democracy?

7-What are fundamental rights?

8-What is a constitutional monarchy?

9-Why did the british divide the history into periods?

10-Write a short note on Amir khusrau?

11-What is a habitat?

12-What was the role of Ziyaddin Barani in history?

13-What are manuscripts?

14-What are miniature paintings?

15-Write a short note on Region and Empire?

16-How were the societies of the subcontinent transformed?

17-What are the three organs of the government?Explain them.

18-What is the difference between monarchy and democracy?

19-What is caste discrimination?

20-Why are the people discriminated?

21-What are old and new religions?

22-Why did the Mughal Empire declined in the 18th  century?

23-Write a short note on Rajput period?

24-What was chivlaric code of conduct?

25-What was supernatural agency?

26-Explain the interaction between the components of the environment?

27-Explain the deforestation and global warming on account of human environment?

28-What are CFC gases?

29-What is an ecosystem?

30-What is atmosphere? What is environment.

 SCIENCE

I-Answer the following questions in a separate notebook-

1-What are nutrients?

2-What is the function of stomata?

3-Which gas is produced during photosynthesis.

4-What are the products of photosynthesis.

5-What is the meaning of Autotrophs?

6-How many types of changes are found in our surroundings?

7- What is physical change?

8-Which gas turns lime water milky.

9-Why painting or oiling is necessary for Iron objects?

10-What happens when magnesium burns in air?

11-Write down the five characteristics of chemical change.

12-Write down the four characteristics of chemical change.

13-Write down the four differences between physical and chemical changes.

14-Write down any five examples of chemical change.

15-What is crystallization? Give examples.

16-What are the modes of nutrition in plants? Give examples of each type of mode of nutrition.

17-Why desert plants have spine like leaves?

18-Why is it called that photo energy changes into chemical energy in photosynthesis?

19-What are the differences between parasite and saprophytes?

20-Explain the photosynthesis reaction in green plants by giving chemical equation. Draw diagram to explain it?

21-What are the insectivorous plants? Explain it with examples.

22-Explain the rusting of iron with equation.

23-Explain that ozone layer acts as a natural shield against radiation.

24-Define the following:-

1. Galvanisation (b) Chemical reaction (c) Rust (d) Chlorophyll

(e) Saprophytes (f) Nutrition (g) Symbiosis (h) Algae (i) Cytoplasm

(j) Nucleus

25-Draw a well labelled diagrams:-

1. A cell.(Page no:-2),Fig:-1.1

(b)A section through a leaf showing stomata as a separate part.(Page no:-3),Fig:-1.2(b and c).

 (c)Pitcher plant showing lid and pitcher.(Page no:-5),Fig-1.6

 (d)Draw diagram showing set up to pass gas through lime

 water.(Page no:-62),Fig:-6.5

 (e)Diagram showing Magnesium ribbon burning.(Page no:-60),

 Fig:-6.3

 **Power point presentation.**

 **Names Topics**

1. Abhishek Chaudhary Photsynthesis is a necessary event
2. Angel Jaishwal Autotrophic mode of nutrition
3. Aryan Chauhan Heterotrophic mode of nutrition
4. Bans Raj Insectivores plants
5. Devojeet Chauhan Saprotrophic mode of nutrition
6. Eakansh Chaudhary Chemical changes
7. Gagandeep Singh Physical changes
8. Harsh Rusting of iron
9. Harsh Lohakhande Prevention of rusting
10. Jiya Rana Without sun and green plant life is

 impossible

1. Kinjal Rai Measuring speed
2. Mansi Sharma Distance time graphs
3. Navjot Singh Types of fertiliser
4. Pankaj Symbols for some electric

 components

1. Priyanka Rana Heating effect of electric current
2. Ridhi Ranjha Forest our lifeline
3. Rachit Electromagnet & Electric bell
4. Sajal Reproduction in plant
5. Sarvagya Gupta Reflection of light
6. Shivam Budhiraja Uses of spherical mirror
7. Shreyanshi Kohli Sunlight:white or coloured?
8. Sukhman Kaur Groundwater as an important

 source of water

1. Tarun Tomar Electric bell
2. Tarshleen Singh Natural fertilizer & its uses
3. Venayak Sunlight is the only source of

 energy

1. Vanshpreet Kaur Distance-Time graphs
2. Yash Outer and inner structure of a

 leaf

**Project work:**  Make a project of 10 to 20 pages Visit a near by bank and collect the information about different vouchers, bank policies loan facilities and transactions.