**Merry Christmas, Happy New Year and Enjoy Your Vacations.**

**THE ROYAL COLLEGE**

**WINTER HOLIDAY HOMEWORK**

**(2018-2019)**

**Class-9th**

**Dear Parents,**

Please make your ward complete their holiday homework in neat and systematic way because it carries 10 marks in each subject for assessment.

**Science:-**

**Understand, Learn and write all questions & answers in a separate notebook from your S.chand book.**

**Physics:-**

1. Ch.1. Motion Q.no.39 page number 21, Q.no.39 page number 42
2. Ch.2. Force and laws of motion. Q.no.40 page number 56 Q.no.36&38 page number:75
3. Ch.3. Gravitation. Q.no.51 page number 102, Q.no.59 page number 126
4. Ch.4. Work and energy. Q.no.58 page number 147, Q.no.32 page number 163
5. Ch.5. Sound. Q.no.65,67 page no.187,Q.no. 62,67 page no.208

**Chemistry:-**

1. Chapter: Matter in our surroundings Q56,58,60 page no.37.
2. Chapter: Is matter around us pure Q64,69,page no.107,106
3. Chapter: Atoms and molecules Q55,page no.130 Q30 page no.152
4. Chapter: Structure of atom Q57,59 page no.193,194, Q35 page no.211

**Biology:-**

1. Chapter: Improvements in food resources Q1,8,17 page no.64,65
2. Chapter: Diversity in living Q4,13,38 page no.260
3. Chapter: Tissues Q4,10 page no 170
4. Chapter: Why do we fall ill Q2,3 page no.308

**Maths:-**

Complete the following given exercise in separate note book.

**Chapter- Number System**

Ex-1.1- Q-3 Example:5,7,8,12,13,14,15,18

Ex-1.3- Q-1,3,8

Ex-1.4- Q-5

Ex-1.5- Q-1,2,3

**Chapter- Polynomials**

Ex-2.4 Q-3,4,5

Ex-2.5 Q-1,2,3,4,5,6,7,8,9,10,11,12,13

**Chapter- Linear Equation in two variable**

Ex-4.2 Q-2,4

Ex-4.3 Q-1,2,3,4

Ex-4.4 Q-1,2

**Chapter- Lines and angles**

Ex-6.1 Q-1,2,3,5,6

Ex-6.2 Q-3,4,5

Ex-6.3 Q-1,2,3,4,5,6

**Chapter- Triangles**

Ex-7.1 Q-2,4,5,8

Ex-7.2 Q-3,5,7,8

Ex-7.3 Q-1,2,3

**Chapter- Circles**

* All the theorems of chapters learn and write.

Ex-10.4 Q-5,6

Ex-10.5 Q-1,2,3,4,5,6

**Learn & write following theorems**

* Prove of midpoint theorem
* Prove that a diagonal of parallelogram divides it into two congruent triangles.
* Prove that diagonals of a parallelogram bisects each other
* Prove that parallelograms on the same base and between the same parallels are equal in area.
* Learn and write all the formulas of

1. Cube
2. Cuboid
3. Cylinder
4. Cone
5. Hemisphere
6. Sphere
7. Square
8. Rectangle
9. Circle

**Hindi:-**

1. Write the following creative writing paragraph in a separate notebook from your Hindi MBD part 1

Para 3 page 71

Para 11,12 page 73

Unsolved Topic 01 and 04 page 77

1. Write the following letters in separate notebook

Letter 2,3 page 79

Letter 15 page 84

Unsolved exercise Question 1 and 2 page 88

**English:-**

1. Read chapter 6 to chapter 10 of **Moments** and write at least 25 word meanings from each chapter English to English and Learn Question Answers. (USE DICTIONARY)

**SST:-**

1. Learn and write following Questions/Answer from **ALL IN ONE** in separate notebook

Page no. 422 Q1,2,3,4

Page no. 204 Q6,7

Page no. 125 Q4,5,6

Page no.243 Q1,3,7

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