Krishna International School, Aligarh
Winter Holiday Assignment (2018—2019)
Class- IX

S.No.	Subject	Holiday Assignment
1.	English	1. Read the chapter 'If I were you' of your book 'Beehive' and write its summary in your class work copy. 2. Do the exercises given on page no. 71, 91, 103, 184, 402 and 403 of Practice Paper book.
2.	हिन्दी	1- हिंदी साहित्य के छायावादी कवि– सूर्यकांत त्रिपाठी निराला, महादेवी वर्मा तथा सुमित्रानंदन पंत का जीवन परिचय देते हुए (चित्र सहित) उनकी अनमोल रचनाओं का वर्णन संचयन पुस्तिका में करें।

3.	Science	**Physics:**
		1.Explain the working of stethoscope with the help of a well labelled diagram in your physics copy.
		2.Make an attractive poster to stop noise pollution in the society and give it a suitable title.
		Chemistry:
		1. Collect information on the following and prepare an investigatory project with the title, "Effects of Chemicals in our Daily Lives".
		   (a) Harmful effects of cold drinks
		   (b) Ammonia content in hair colour
		   (c) Pollution level near school in the morning hours
		   (d) Comparative study of fresh fruit juices & packed fruit juices.
		Biology:
		1. Find out scientific names of the common plants and animals and classify them on the basis of their form ,shape, etc.
		2. Collect parts of plants like leaves, seeds, flowers and classify them into the category of monocot, and dicot.
		NOTE: Do the aforementioned assignment in your class work copy.

4.	Social science	Prepare a project on the topic, "Women in 21st century India". Choose two prominent women from each field listed below and document their lives and contribution. The women are to be chosen from , a) Politics, b) Army, c) Social work, d) Entrepreneur , e) Bureaucracy.
5.	Computer:-	**Explain the following in class work copy** **1**. Categorize all the Tabs from the Menu bar along with their uses in Microsoft Excel. **Prepare well all the chapters covered in class as well as exercise done in copy.**

Maths.
Q1. Prove that:

Q2. State and prove remainder theorem.
Q3. Express in the form (i)
Q4. Draw a triangle ABC where vertices A, B and C are (0, 2), (2, 2) and (2, 2) respectively.

Q5. A random survey of the number of children of various age group playing in the park is as follows:

AGE (in years)	Number of children
1 - 2	5
2 - 3	3
3 - 5	6
5 - 7	12
7 - 10	9
10 - 15	10
15 - 17	4

Draw a histogram to represent the data.

Q6. A tyre manufacturer company kept a record of the distance covered before a tyre needed to be replaced. The table shows result of 1000 cases.

Distance (in km)	Less than 4000	4000 – 9000	9000 – 14000	More than 14000
Frequency	20	210	325	445

If you buy a tyre of this company, what is the probability that
(i) it will need to be replaced before it has covered 4000 km.
(ii) it will last more than 9000 km.

Q7. State and prove MID POINT theorem.

Q8. Express   with rational denominator.

Q9. Show that bisectors of angles of a parallelogram form a rectangle.

Q10. If

Q11. Find the value of for which the polynomial is divisible
     by .

Q12. Show that the line segments joining the mid points of the opposite sides of a quadrilateral bisect each other.

Q13. Show that the median of a triangle divides it into two triangles of equal areas.

Q14. The blood group of 30 students of class 9 are recorded as follows:
       A, B, O, O, AB, O, A, O, B, A, O, B, A, O, O
      A, AB, O, A, A, O, O, AB, B, A, O, B, A, B, O
     Represent this data in the form of a frequency distribution table. Which is the most common and which one is the most rarest blood group among these students?

Q15. Factorise: (i)   (ii)