

D.A.V. PUBLIC SCHOOL, BISTUPUR, JAMSHEDPUR  
SUMMER HOLIDAY HOME WORK  
SESSION: 2018 - 19  
STD: X

English:

1. Prepare a book review on the novel- The Story of My Life ( Chapter 1 to 14 ) which should include the following:

- a. Bibliographical information
- b. Table of contents
- c. Author's biography
- d. Acknowledgements
- e. Chapter wise concise summary
- f. Character sketch of four important characters- Helen Keller, Anne Sullivan, Mildred Keller and Alexander Graham Bell
- g. Afterword or Conclusion

2. Define following with their kinds and examples:

- a. Tense
- b. Determiner

3. Write a story in about 150 to 200 words with the beginning provided below. Give a suitable title to the story.

It was 6 o'clock in the evening and there was a lot of traffic on the road. Mohan was driving his car. Suddenly two teenagers on bike overtook his car.....

Note :Home Assignment should be done in a separate note book of home assignments containing 120-140 pages. This assignment note book will be used for both the term.

Hindi:

1. नेताजी सुभाषचंद्र बोस के व्यक्तित्व और कृतित्व पर एक प्रोजेक्ट बनाइए।
2. निबंध लिखें – विश्व शांति और भारत
3. ग्रीष्मकालीन खाद्य-पेय पदार्थ का एक आकर्षक विज्ञापन तैयार करें।

Maths:

A). Project : LCM & HCF of 2 or 3 numbers .

Make an illustrative project file in the group of 10 students under the criterion :

- (i) Different methods of finding LCM & HCF.
- (ii) 5 different application (problems)
- (ii) Different paper activity used to demonstrate “How to calculate LCM & HCF “ .

B). Explore : Study and solve the problems of the chapter “ logarithms” , take the help of any class-10 maths book or google to enrich yourself with the topic & its related application in different subject .

(Students can use holiday homework copy to solve the sums .)

C). Assignments : ( To be done in homework copy )

1. For any positive integer ‘n’ prove that  $n^3 - n$  is divisible by 6 .
2. The HCF of 65 & 117 is expressible in the form of  $65m - 117$  .Find the value of ‘m’ .  
Also find the LCM of 65 & 117 using prime factorization method .

3. Find the smallest number which when divided by 28 & 32 leaves remainders 8 and 12 respectively.
4. Find the least number of square tiles required to pave the ceiling of a room 15 m 17 cm long and 9m 2 cm broad .
5. Give examples of polynomials  $p(x)$ ,  $g(x)$ ,  $q(x)$  and  $r(x)$  , which satisfy the division algorithm and  
 (i) degree  $p(x)$  = degree  $q(x)$     (ii) degree  $q(x)$  = degree  $r(x)$     (iii) degree  $r(x)$  = 0
6. Solve :  $7^x + 5^y = 74$  ;  $7^{x+1} - 5^{y+1} = 218$  .
7. Find the point of intersection of lines :  $2ax - by = 2a^2 - b^2$  &  $ax + 2by = a^2 + 2b^2$  by eliminating the variables. Show that the system of equations is concurrent with the line represented by the equation  $(a - b)x + (a + b)y = a^2 + b^2$  .
8. A bird is flying in the same direction as that of the wind, covers a distance of 45km in 2 h 30 min. But it takes 4 h 30 min to cover the same distance when it flies against the direction of the wind . Ignoring conditions other than the wind conditions, find (i) the speed of the bird in still air , (ii) the speed of the wind .

**D). Activity : ( To be done in lab record book/lab manual )**

- 1) Solve the system of linear equation in two variables graphically and investigate the condition for unique solution .
- 2) Solve the system of linear equation in two variables graphically and investigate the condition for infinite solution .
- 3) Solve the system of linear equation in two variables graphically and investigate the condition for no solution .
- 4) Prove Pythagoras theorem using the methods of paper folding cutting & pasting .

Physics:

1. Which physical quantity has ampere-sec as S.I. unit ?
2. A piece of resistance wire has resistance 4 ohms. It is doubled on itself . Find the value of new
3. resistance.
4. A piece of copper and another of germanium are cooled from room temperature to 80 K . What
5. happens to their resistance ?
6. A technician has only two resistance coils . By using them singly in series or in parallel, he is able to
7. obtain the resistance of 3,4,12 and 16 ohms . What are the resistance of two coils ?
8. Four bulbs marked 40 W , 250 V are connected in series with 250 V mains , find the total power
9. consumed.
10. What is the power output of a 1.5 V ideal battery which is delivering a current of 0.3A ?
11. In a house there are ten 60 W lamps , ten 40 W fans and a heater of 1000 W . They are used on an
12. Average for 6 hours. Find the bill in a month of 30 days , if 1 BOT = 40 paise.
13. Two metal discs of the radius  $r$  are placed  $100r$  distance apart(parallel to each other) in a medium
14. of resistivity  $\rho$ . Find the resistance between the two discs.
15. What are the characteristics of the parallel combination of resistors?
16. What are the advantages of parallel combination over series combination of the resistors?

Chemistry:

1. write down the different methods which can be used to save food items from Rancidity.

2. Write all the chemical reactions of first chapter given in your ncert text book. Also show the colour of substances where ever necessary with sketch pen by drawing a rectangle below the substance and colouring that with suitable colour.

**Biology:** (Note: Create a copy of the prescribed format and fill it with suitable answers)

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Class: \_\_\_\_\_ Teacher: \_\_\_\_\_

## Fun With the Respiratory System

Complete the activity.



a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
7	8	16	8	12	22	15	1	13	28	11	5	4	17	9	19	14	2	25	21	24	3	23	10	20	18

- 6-13-7-19-1-2-7-15-4 \_\_\_\_\_
- 7-13-2-23-7-20-25 \_\_\_\_\_
- 8-2-9-17-16-1-13-9-5-12-25 \_\_\_\_\_
- 19-7-25-25-7-15-12-25 \_\_\_\_\_
- 19-17-12-24-4-9-17-13-7 \_\_\_\_\_
- 21-2-7-16-1-12-7 \_\_\_\_\_
- 4-24-16-24-25 \_\_\_\_\_
- 16-7-2-8-9-17 \_\_\_\_\_
- 21-24-8-12-2-16-24-5-9-25-13-25 \_\_\_\_\_
- 7-5-3-12-9-5-13 \_\_\_\_\_
- 8-2-9-17-16-1-13-21-13-25 \_\_\_\_\_
- 5-24-17-15-25 \_\_\_\_\_
- 8-2-12-7-21-1-13-17-15 \_\_\_\_\_
- 17-7-25-7-5 \_\_\_\_\_
- 6-13-9-10-13-6-12 \_\_\_\_\_
- 12-10-1-7-5-7-21-13-9-17 \_\_\_\_\_
- 13-17-1-7-5-7-21-13-9-17 \_\_\_\_\_
- 9-10-20-15-12-17 \_\_\_\_\_
- 5-9-8-12 \_\_\_\_\_
- 12-4-19-1-20-25-12-4-7 \_\_\_\_\_
- 8-2-9-17-16-1-13 \_\_\_\_\_
- 3-12-17-21-13-5-7-21-13-9-17 \_\_\_\_\_
- 7-25-21-1-4-7 \_\_\_\_\_
- 16-9-24-15-1-13-17-15 \_\_\_\_\_
- 12-10-16-1-7-17-15-12 \_\_\_\_\_

1. lungs	6. dioxide	11. bronchi	16. nasal	21. pneumonia
2. breathing	7. inhalation	12. bronchioles	17. passages	22. tuberculosis
3. exchange	8. exhalation	13. diaphragm	18. emphysema	23. mucus
4. oxygen	9. ventilation	14. alveoli	19. bronchitis	24. coughing
5. carbon	10. trachea	15. airways	20. asthma	25. lobe

## History /Civics:

Mark the following places (related to the National Movement) with the help of the clues given below on an Outline Map of India.and also make an index in the map.

1. At this place Gandhi led the peasant Satyagraha against the plantation workers in 1916.
2. At this place a Satyagraha movement was led in 1917.
3. This place witnessed the launch of Satyagraha movement by the cotton mill workers in 1918.
4. This place is known for the infamous Jallian wala Bagh Massacre.
5. The place where the Congress Session was held in September 1920 to discuss the need for the launch of Non Cooperation –Khilafat Movement.
6. The place where the Congress Session was held in December 1920 to finally adopt the Non Cooperation –Movement
7. At this place the Non-Cooperation Movement was called off by Gandhi.
8. The plantation workers who joined the Non- Cooperation belonged to this place.
9. The Tribals (AlluriSitaramRaju) who joined the Non-Cooperation belonged to this place.
10. The Kisan Sabha was formed by JL Nehru at this place.
11. PoornaSwaraj was demanded by JL Nehru at this Congress Session in 1929.
12. This place saw the beginning of the historic Salt March/Civil Disobedience Movement led by Gandhi in 1930.
14. Where the Non–Cooperation movement ended.
15. Thousands of workers wore Gandhi caps here and participated in the Civil Disobedience Movement.

## Geography:

1. Write a report on the last tsunami that occurred.
2. Highlight the changes that took place during Tsunami.
3. Mention the situations of different countries.
4. Add pictures.

## Economics:

1. “A challenge is not just any problem but an opportunity for progress”. Analyse the statement.
2. How is the issue of sustainability important for development? Explain with examples.
3. What are public facilities? Why are they needed for the development of the country?
4. In what way are economic development and human development related to each other?
5. Mention the factors important for development apart from income.

## Sanskrit:

- 1- संधि की परिभाषा एवं भेद उदाहरण सहित लिखिए ।
2. व्यञ्जन संधि के सूत्रों को लिखकर उसकी व्याख्या हिन्दी भाषा में करें !
3. शब्द रूप लिखें- मुनि ,पति सखि, अस्मद्, युस्मद् ,तत् तीनों लिंगों में ,एतत् तीनों लिंगों में।
4. धातु रूप पाँच लकारों में लिखें- पठ् , भू , अस् , स्था , पा ,दृश् , गम् , सेव , लभ् , ।