

Little flower house <b>VARANASI</b>		
	<b>SUMMER HOLIDAY HOMEWORK 2017-18</b>	<b>CLASS IX</b>

## हिन्दी

### 1. पत्रलेखन—

आपनवीं कक्षामें पढ़ने वालेआशीष / सीमाहो।आपने एक कवितालिखीहै।इसकेप्रकाशनहेतुदैनिकजागरण के संपादकको पत्र लिखिए।

### 2. निबंध लेखन—

स्मार्टफोनकाछात्रोंपर बढ़ताप्रभाव

(भूमिका, आवश्यकता एवंलाभ, दोस्तोंपरप्रभावडालना, दुष्प्रभाव, उपसंहार)

### 3. प्रतिवेदन—

विद्यालय द्वाराआयोजित शैक्षिकभ्रमणकार्यक्रमपरप्रतिवेदनलिखें।

### 4. स्कूल की पिकनिक—यात्रा कासंस्मरणलिखें।

5. आपकेविद्यालय मेंकहानीलेखनप्रतियोगिताहै।इसकीसूचनाऔरप्रचार के लिए पोस्टरबनाइए।

## MATHEMATICS

1. Define rational and irrational numbers in terms of terminating and non-terminating decimal. Explain with examples
2. Write four equivalent rational numbers of  $\frac{2}{5}$ .
3. Find ten rational numbers between -1 and 0.
4. Express  $\frac{2}{9}$  in decimal form.
5. Express  $0.999\ldots$  as a fraction in simplest form.

6. Express  $0.\overline{163}$  as a fraction in simplest form.

7. Represent the following irrational number on number line

(i)  $\sqrt{7}$     (ii)  $\sqrt{8.47}$     (iii)  $\sqrt{23}$     (iv)  $\sqrt{9.3}$

8. Verify the Pythagoras theorem using graphical method.

9. Write the laws of exponent .

10. What is rationalization? Rationalize the denominator of each of the following:

(i)  $\frac{3-\sqrt{2}}{3+2\sqrt{2}}$     (ii)  $\frac{4}{(\sqrt{7}+\sqrt{3})}$

11. If  $x = (4 - \sqrt{15})$ ; find the value of  $(x^2 + \frac{1}{x^2})$ .

12. Find the values of a and b in each of the following:

(i)  $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a - b\sqrt{3}$     (ii)  $\frac{\sqrt{3}+1}{\sqrt{3}-1} = a + b\sqrt{3}$

13. Show that :  $\frac{1}{(3-\sqrt{8})} - \frac{1}{(\sqrt{8}-\sqrt{7})} + \frac{1}{(\sqrt{7}-\sqrt{6})} - \frac{1}{(\sqrt{6}-\sqrt{5})} + \frac{1}{(\sqrt{5}-2)} = 5$

14. Simplify :  $(\frac{4+\sqrt{5}}{4-\sqrt{5}} + \frac{4-\sqrt{5}}{4+\sqrt{5}})$

15. Simplify :

(i)  $(625)^{-\frac{1}{4}}$     (ii)  $\frac{5^{\frac{6}{7}}}{5^{\frac{3}{5}}}$

16. Evaluate:

(i)  $(81)^{-\frac{1}{4}}$     (ii)  $\frac{1}{(1024)^{-\frac{1}{10}}}$

### SOCIAL SCIENCE

- ❖ Prepare a project on any one topic which should not exceed 15 pages and should include the following heads:

(i) Preface (ii) Index (iii) Acknowledgement

(iv) Detailed report on the topic under necessary heading (meaning, Causes, effects, Precautions) and (v) Bibliography)

### ❖ SECTION- A (CIVICS)

- \* Democracy in a country  
Or

- \* Dictatorship in a country

### ❖ SECTION –B (ECONOMICS)

- \* Poverty  
Or

- \* People as a resource 'Human Capital'.

### ❖ SECTION – C (GEOGRAPHY)

- \* Climate  
Or

- \* Flora and Fauna

### ❖ SECTION – D (HISTORY)

- \* Prepare a PPT on the topic of:

- The Story of Cricket  
Or
- French Revolution

#### **Note:**

1. Fair copies will be checked after Summer Vacation.
2. 2-2 chapters from each subject should be completed with exercise.  
(History, Geography, Civics and Economics)

3. The marks of this assignment will be added to the Final Exam. as per CBSE guidelines.

### SCIENCE

#### PHYSICS

1. Consult the railway time table. Prepare a list of different trains running on the Golden Quadrilateral of India Railway (that is, New Delhi- Howrah, Howrah - Chennai, Chennai- Mumbai and Mumbai- New Delhi routes). Calculate the average speeds of various trains running on these routes and arrange the trains in the descending order of their average speeds.

#### CHEMISTRY

2. Closely observe and analyse and then list the things around you as solids, liquids and gases. Report the survey in the following format :

(i) Aim (ii) Introduction (iii) Method used to analyse

(iv) Observations (v) Conclusion

#### BIOLOGY

3. Study the following and complete your findings in the form of a report :

(i) Microscope- from Hooke's crude microscope to present day electron microscope.

Collect the information from books, magazines or internet and present them in the form of article along with illustrations to support the written work.

(ii) Contribution made by various scientists in the field of Cell Biology.

## ENGLISH

**Note :- Make a separate copy for vacation assignment. Write all questions also in your copy.**

**Q.1 Read out complete novel "Gulliver's Travel" and do the questions given below on a separate copy**

### **QUESTIONS ON CHARACTERS**

- a) Describe Lemuel Gulliver as a narrator and an observer of new lands, people and their practices.
- b) Give a character sketch of the Emperor of Lilliput.
- c) Give a character sketch of the King of Brobdingnag.
- d) Give a character sketch of the Munodi.
- e) Write a character sketch of the Laputian King.

### **QUESTIONS ON THEME, PLOT AND EVENTS**

- a) What impression do you form of Swift's attitude towards mankind after your reading of 'Gulliver's Travels'. Would you describe Swift as a misanthrope – a hater of mankind ?
- b) Evaluate Swift's 'Gulliver's Travel' as a satire.
- c) Jonathan Swift's 'Gulliver Travels' is basically a novel of adventure and a tale of wonder of strange and wonderful lands. Elaborate and illustrate the statement.
- d) Describe the social, cultural and political life of the people of Lilliput in your own words.
- e) Describe Gulliver's visit to the island of Glubbdubdrib and his talking with the ghosts of the dead souls.

**Q.2 Make all diary entries given below in your English – I copy.**

- You, Shivam witnessed a bank robbery in your locality. You were quick to react and saved the day. Taking ideas from the clues given below, write a diary entry in about 100-120 words.

Hints - Went near the bank for some work – no guard at the gate – robbers in the banj – used presence of mind and called the police – robbers got caught

- Write a diary entry on how you felt when you were elected as the Vice President of the students council of your school. You are Ajay/Anvita of Class IX. You may take the help of the clues given below (100-120 words)

Hints – Elections of the students' council – motivated to take part – helped by friends and teachers – elated after winning – sense of responsibility

- You went to zoo today and saw a tiger for the very first time. However, someone jumped into the enclosure and was killed by the tiger before anyone could do anything. Taking ideas from the following clues, write diary entry in about 100-120 words describing your feelings.

Clues – First visit to the zoo -shocked to see a man in the tiger enclosure –the tiger killed the man – no security -regret and anger over the mishap

## Foundation of Information Technology

- You are Apoorva/Aisha. Your dad didn't allow you to go on a school tour as he wants you to study for the upcoming examinations. You are very upset. Write your feelings in the form of a diary entry in about 120 words.
- Your summer vacation is about to over. You are still not done with your holiday homework. Thinking about the scolding that you will get has filled you with anxiety. Write your feelings in the form of a diary entry in about 120 words.

**Q.3** Write a creative story that begins with -

After the accident, she seemed to be a completely different person

\_\_\_\_\_

**Q.4** Sunil is an over-ambitious boy. He wants to be a film hero. But he doesn't get any appropriate role in the films. He approached several production houses and met directors but couldn't succeed. Depression and stress overpower him. One fine morning he meets a man who \_\_\_\_\_

Complete the story in 150 words.

.....

- Q1. What is a Computer?
- Q2. List the characteristics of a computer?
- Q3. Distinguish between data and information.
- Q4. What are the major/basic functional components of a computer?
- Q5. What do you mean by an input?
- Q6. What is the computing process?
- Q7. What do you understand by hardware?
- Q8. What is software?
- Q9. What is the basic language of a computer?
- Q10. What is a CPU.
- Q11. What do you mean by Control Unit?
- Q12. What is the function of Arithmetic and Logic Unit?
- Q13. What are the advantages and disadvantage of computer in our daily life?
- Q14. What is convergence in technology? is it helpful in growth of Indian economy?
- Q15. Compare horizontal and vertical convergence?
- Q16. List the limitations of internal memory?
- Q17. Write a Short note on BLU-RAY disc.
- Q18. Compare the role of OCR, MICR and OMR in various fields.
- Q19. Explain various devices that can be used as output devices.
- Q20. What is the difference between RAM and ROM?
- Q21. What is the purpose of main memory? Explain
- Q22. What is the difference between flatbed plotter and drum plotter?
- Q23. Distinguish between volatile and non- volatile memory.
- Q24. What are advantages and disadvantages of Dot matrix printers? Explain.
- Q25. What is purpose of hard disk in computer? Explain.
- Q26. What are the advantages of ROM? Explain.
- Q27. What are the advantages and disadvantages of keyboard ? Explain.
- Q28. What do you mean by mouse? What are different kind of mouse ? Explain.
- Q29. What is the different between system software and application software?
- Q30. Define computer. Draw the block diagram of a computer. Explain it.

### Project

Prepare a project file giving in detail the working of Input- Process- Output Cycle including the relevant figures and the functions of its various parts. It should also include the working of CPU and detailed explanation of few input and output device.