

**I.T.B.P PUBLIC SCHOOL  
SUMMER VACATION HOME-WORK  
CLASS 10**

SR. NO.	SUBJECT	HOMEWORK
1.	ENGLISH	<p><b><u>Do the following works in your English Notebook.</u></b></p> <p>1. Read the novel, ‘The story of my life’ by Helen Keller. Write the <b>summary</b> of the <b>first ten</b> chapters.</p> <p>2. ‘When you live for a strong purpose, then hard work isn’t an option. It is a necessity.’ Both Nicola and Jacopo were hard working and uncomplaining. You too realized the importance of hard work after reading their story. Write an <b>article</b> in 120-150 words on the ‘Virtues of Hard Work.’</p> <p>3. Write an <b>article</b> on the topic – ‘The evil practice of child labour prevalent in India’. [120-150 words]</p> <p>4. Write a <b>short story</b> [150-200 words] with an opening line- <b>‘One day I walked into my house and I was shocked to see.....’</b></p> <p><b>5. Integrated Grammar Practice Test (You can either take a printout and stick in the copy or write these passages in your English notebook)</b></p> <p><b>Passage 1</b></p> <p><b>1. Fill in the blanks with an appropriate preposition.</b></p> <p>Sujata Ashtekar and Vatsala Trivedi are two women ..... (on / in / with / at) a mission. They spend their time and energy to popularize organ donation in Mumbai. Ashtekar and Trivedi are volunteers ..... (at / with / in) the Zonal Transplant Coordination Committee that ..... (coordinates / coordinate / coordinating / coordinated), monitors and supervises the cadaver organ transplant programme ..... (along / through / across) Mumbai. Both Trivedi and Ashtekar come ..... (off / from / on) the medical sector. Trivedi, 60, retired as the urology and transplant department head of Sion hospital. .... (In / During / For) her career that spanned ..... (over / above / more) 20 years she realized the importance of transplants. She also did Mumbai’s first kidney transplant ..... (in / on / at) 21 March, 1997. Ashtekar is a Master ..... (in / of / for) Social Sciences from TISS. She learnt the basics ..... (for / of / in) organ transplantation after a stint at Jaslok hospital. They formed the ZTCC (Zonal Transplant Coordination Committee) with likeminded people ..... (in / on / at) December 2000.</p> <p><b>Passage 2</b></p> <p><b>2. Complete the following sentences using the most appropriate form of the <u>verb</u> given in the brackets.</b></p> <p>The world ..... (be) online. Everyone ..... (use) computers and internet for business and pleasure. There is growing concern about the effects this has on children. Nowadays children ..... (spend) a lot of time online ..... (play) games,</p>

		<p>..... (chat) with their friends and ..... (watch) videos. Priceless childhood hours ..... (spend) sitting indoors opposite a computer screen instead of playing outdoors. Some people believe that children should ..... (allow) to spend time online. In their opinion, the hours spend on the computers are actually very good for them. Their logic is simple. Nowadays computer skills are absolutely essential for success in the workplace. Therefore, the time they spend on the computer ..... (be) actually helping them to gain the skills they ..... (need) to become productive adults.</p> <p><b>6.Find the synonyms of the following words and also check the pronunciation:</b></p> <table border="0"> <tr> <td>abstract</td> <td>divert</td> <td>zealot</td> </tr> <tr> <td>admonish</td> <td>dormant</td> <td>panacea</td> </tr> <tr> <td>advocate</td> <td>egocentric</td> <td>perfunctory</td> </tr> <tr> <td>belligerent</td> <td>facilitate</td> <td>recalcitrant</td> </tr> <tr> <td>bolster</td> <td>fortuitous</td> <td>redeem</td> </tr> <tr> <td>bureaucratic</td> <td>fraudulent</td> <td>rejuvenate</td> </tr> <tr> <td>docile</td> <td>indigenous</td> <td>nonchalant</td> </tr> <tr> <td>distraught</td> <td>demeanor</td> <td>meticulous</td> </tr> </table> <p><b>6. Revise the syllabus done for UT2</b></p>	abstract	divert	zealot	admonish	dormant	panacea	advocate	egocentric	perfunctory	belligerent	facilitate	recalcitrant	bolster	fortuitous	redeem	bureaucratic	fraudulent	rejuvenate	docile	indigenous	nonchalant	distraught	demeanor	meticulous
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2.	HINDI	4 सम्वाद,3 विज्ञापन,3 अनुच्छेद 3 औपचारिक पत्र लिखिए ।इकाई परीक्षा हेतु लिखाए पाठ्यक्रम को दोहराए।																								
3.	MATHEMATIC S	<ol style="list-style-type: none"> <li>1. Complete the given worksheets of Chapter 3 and 4 in practice notebook and revise the same chapters for UT 2.</li> <li>2. Holiday Homework should be done neatly and properly.</li> <li>3. Maintain your fair notebook properly.</li> </ol>																								
4.	SCIENCE	<p>Practice the worksheets of CH-1,6,10,2 and 7. Revise chapters for UT-2</p> <p><b><u>Chemistry CH-1 chemical reactions and equations</u></b></p> <p>Q1. What happens chemically when quick lime is added to water?</p> <p>Q2. How will you test for the gas which is liberated when HCL reacts with an active metal?</p> <p>Q3. What is an oxidation reaction? Is it exothermic or endothermic? Give one example of oxidation Reaction.</p> <p>Q4. Give an example of photochemical reaction.</p> <p>Q5. Give an example of a decomposition reaction. Describe any activity to illustrate such a reaction by heating.</p>																								

- Q6. Why is respiration considered as exothermic process?
- Q7. Balance the following chemical equation.  

$$\text{Fe(s)} + \text{H}_2\text{O(g)} = \text{Fe}_3\text{O}_4 + \text{H}_2\text{(g)}$$

$$\text{MnO}_2 + \text{HCl} = \text{MnCl}_2 + \text{Cl}_2 + \text{H}_2\text{O}$$

$$\text{HNO}_3 + \text{Ca(OH)}_2 = \text{Ca(NO}_3)_2 + \text{H}_2\text{O}$$
- Q8. On what basis is a chemical equation balanced?
- Q9. State any two observations in an activity suggesting the occurrence of a chemical reaction.
- Q10. Name a reducing agent which may be used to obtain manganese from manganese dioxide.
- Q11. What change in colour is observed when silver chloride is left exposed to sunlight? Also mention the type of chemical reaction.
- Q12. Define a combination reaction. Give one example of an exothermic combination reaction.
- Q13. What is observed when a solution of potassium iodide is added to lead nitrate solution?  
 What type of reaction is this? Write a balanced chemical equation for this reaction.
- Q14. Distinguish between an exothermic and an endothermic reaction.
- Q15. Distinguish between a displacement and a double displacement reaction.
- Q16. Identify the type of reaction in the following:  

$$\text{Fe} + \text{CuSO}_4\text{(aq)} = \text{FeSO}_4\text{(aq)} + \text{Cu(s)}$$

$$2\text{H}_2 + \text{O}_2 = 2\text{H}_2\text{O}$$

#### **Biology CH-6 life process**

- In human alimentary canal, name the site of complete digestion of various components of food. Explain the process of digestion. [CBSE (CCE) 2012]
- List in tabular form, three differences between arteries and veins. [CBS (CCE) 2012]
- List the three kinds of blood vessels of human circulatory system and write their functions in tabular form. [CBSE I CCE) 2012]
- (a) "The breathing cycle is rhythmic whereas exchange of gases is a continuous process". Justify this statement.  
 (b) What happens if conducting tubes of circulatory system develops a leak? State in brief, how could this be avoided?  
 (c) How opening and closing of stomata takes place? [CBSE (CCE) 2011]
- Draw a diagram of the front view of human heart and label any six parts including at least two that are concerned with arterial blood supply to the heart muscles. [CBSE (CCE) 2011]
- Describe in brief the function of kidneys, ureters, urinary bladder and urethra. [Foreign 2010]
- Explain the process of breakdown of glucose in a cell
  - in the presence of oxygen,
  - in the absence of oxygen. [HOTS, Foreign 2010]
- (i) Label any 4 parts in the given diagram.  
 (h) What are the two functions represented in this diagram?

[HOTS, CBSE Sample Paper 2009]

9. What is double circulation in human beings? Why is it necessary?

[HOTS, NCERT, Delhi 2008C]

10. (a) Name two different ways in which glucose is oxidised to provide energy in various organism.

(b) Write any two differences between the two oxidation of glucose in organisms. [AI 2008]

11. Write any three differences between aerobic and anaerobic respiration. [HOTS, NCERT Exemplar, NCERT, AI 2008]

12. (a) Name the process by which autotrophs prepare their own food.

(b) List the three events which occur during this process.

(c) State two sources from which plants obtain nitrogen for the synthesis of proteins and other compounds. [Foreign 2008]

### **CH-10 Light reflection and refraction**

1. List four characteristics of the images formed by plane mirrors. (CBSE 2015)

2. Draw a ray diagram to show the path of the reflected ray corresponding to an incident ray which is directed parallel to the principal axis of a convex mirror. Mark on it the angle of incidence and the angle of reflection (CBSE 2014)

3. A spherical mirror produces an image of magnification -1 on a screen placed at a distance of 50 cm from the mirror.

(a) Write the type of mirror.

(b) Find the distance of the image from the object.

(c) What is the focal length of the mirror?

(d) Draw the ray diagram to show the image formation in this case. (CBSE 2014)

4. State the laws of refraction of light. If the speed of light in vacuum is  $3 \times 10^8 \text{ ms}^{-1}$ , find the speed of light in a medium of absolute refractive index 1.5. (CBSE 2014)

5. Which phenomenon is responsible for making the path of light visible? (CBSE 2012)

6. When we place a glass prism in the path of a narrow beam of white light a spectrum is obtained.

7. What happens when a second identical prism is placed in an inverted position with respect to the first prism? Draw a labeled ray diagram to illustrate it. (CBSE 2012)

8. The power of the lens is -4.0D. What is the nature of this lens? (CBSE 2008)

9. Which type of mirror is used to give erect and enlarged image of an object? (CBSE 2008)

10. Draw the ray diagram and also state the position, the relative size and the nature of image formed by a concave mirror when the object is placed at the centre of curvature of the mirror. (CBSE 2011)

### **CH-2 ACIDS, BASES AND SALTS**

1. How will you test for a gas which is liberated when HCl reacts with an active metal? (CBSE 2008)

2. What is baking powder? How does it make the cake soft and spongy? (CBSE 2008)

3. When fresh milk is changed into curd will its pH value increase or decrease? Why?

4. Give Arrhenius definition of an acid and a base. (CBSE 2009)

		<p>5. What happens chemically when quick lime is added to water? (CBSE 2008)</p> <p>6. Name the gas evolved when dilute HCL reacts with Sodium hydrogen carbonate. How is it recognized? (CBSE 2008)</p> <p>7. How does the flow of acid rain water into a river make the survival of aquatic life in the river difficult? (CBSE 2008)</p> <p>8. How is the pH of a solution of an acid influenced when it is diluted? (CBSE 2008 F)</p> <p>9. How does the pH of the solution change when a solution of base is diluted? (CBSE 2008 F)</p> <p>10. Arrange these in increasing order of their pH values- NaOH, blood, lemon juice. (CBSE 2008 F)</p> <p>11. Two solutions of A and B have pH values of 5 and 8. Which solution will be basic in nature? (CBSE 2008 C)</p> <p>12. Why does tooth decay start when pH of mouth is lower than 5.5? (CBSE 2009)</p> <p>13. What would be the colour of litmus in a solution of sodium carbonate? (CBSE 2009)</p> <p>14. Name the products obtained when sodium hydrogen carbonate is heated. Write the chemical equation for the same. (AI CBSE 2009)</p> <p>15. Write the chemical formula of washing soda and baking soda. Which one of these two is an ingredient of antacids? How does it provide relief in stomachache? (CBSE 2008 F)</p> <p>16. What do you mean by <math>\frac{1}{2}</math> water of crystallization of a substance? Describe an activity to show that blue copper sulphate crystals contain water of crystallization. (CBSE 2009 F)</p> <p>17. How can washing soda be obtained from baking soda? Name an industrial use of washing soda other than washing clothes. (AI CBSE 2008)</p> <p>18. Why does 1 M HCL solutions have a higher concentration of H<sup>+</sup> ions than 1M CH<sub>3</sub>COOH solution? (AI CBSE 2009)</p>
5.	SOCIAL STUDIES	<p>1) Revise all the chapters done till the summer break</p> <p>2) Every student has to undertake any one project on Disaster Management (pertaining to class X syllabus):</p> <ul style="list-style-type: none"> <li>. Disaster Management (Tsunami-the killer wave; Survival skills; Alternative communication system; Safe construction practice)</li> </ul> <p>It is to be noted that :</p> <p>The projects should be made from eco-friendly products without incurring too much expenditure, credit will be awarded to original drawings, illustrations and creative use of materials.</p> <p>The project report should be handwritten by the students themselves</p> <p>The project report should be presented in a neatly bound simple folder.(spiral bound)</p> <p>The project report should be developed and presented in this order:</p> <p><b>COVER PAGE</b> showing project title, student information, school and year</p> <p><b>LIST OF CONTENTS/ INDEX</b> with page numbers</p> <p><b>ACKNOWLEDGEMENTS</b> (acknowledging the institution, teachers and the persons who</p>

		<p>have helped you)  <b>PROJECT OVERVIEW</b> : purpose, aim, methodology and experiences while doing the project  <b>CHAPTERS</b> with relevant headings  <b>SUMMARY AND CONCLUSIONS</b> based on findings  <b>BIBLIOGRAPHY</b> should have the books, websites referred  <b>TEACHER'S EVALUATION REPORT</b></p>
6.	COMPUTERS (F. IT)	<p>Make a website of minimum 10 webpages in HTML with following configurations-</p> <ol style="list-style-type: none"> <li>1. Create a folder with your class name followed by your name; eg- your name is rajat then folder name should be "10 rajat".</li> <li>2. Make a subfolder named images inside your folder.</li> <li>3. Save all the required images inside the "images" folder.</li> <li>4. Save all the html files inside your folder.</li> <li>5. The first page of the website should be saved with the name "index.html".</li> <li>6. Index.html file will show all the options to visit all the other pages.</li> <li>7. Create a zip folder of your folder and email it at "rahulsir.notes@gmail.com"</li> </ol> <p>All webpages should have the following qualities -</p> <ol style="list-style-type: none"> <li>1. All web pages should have common background.</li> <li>2. Use light colour background for pages and the text should be only in black colour.</li> <li>3. Every page except index.html can contain subparts. Each subpart must be divided using different levels of headings.</li> <li>4. There must be an image on every page related to topic. The image width should be minimum 150 pixels and maximum 200 pixels.</li> <li>5. Height of the image should be adjusted according to width of the image.</li> <li>6. All the images on index.html should be properly packed inside a table and all the images should have a proper label.</li> <li>7. Image and the label should have a link to a related page using external hyperlink.</li> <li>8. One hyperlink should be available at index.html which provide a download link for a related word document.</li> </ol> <p>Topics for the website are as follows (Choose any one):</p> <ul style="list-style-type: none"> <li>● Economical growth of India</li> <li>● Societal Growth of India</li> <li>● Cultural growth in India</li> <li>● Youth Development in India</li> </ul>

