

Delhi International School, Rohini
HOLIDAYS HOMEWORK (2018 -2019)
CLASS - X



Dear parent,

Each task is carefully planned in order to make it student friendly and interesting. All the tasks are related to the topics covered in April/May in classroom by the students. This is an effort to reinforce the concepts and make learning an enjoyable experience. In case you need any clarification regarding the homework you may call at the school reception from

8:00 AM to 2:30 PM on all working days.

INSTRUCTIONS:

- 1. Submit all the holiday homework on the first day after summer vacation.**
- 2. Revise the syllabus for the cycle test I to be held in July.**
- 3. Follow the instructions carefully which is written before every subject.**

DELHI INTERNATIONAL SCHOOL, ROHINI
ENGLISH
HOLIDAYS HOMEWORK-X



Q1. Read the extract and the answer the following question:-

- (a) No one would believe it,” said Mrs. Packletide, her face changing colour as rapidly as though it were going through a book of patterns before post time.
- (1) Whom is Mrs. Packletide talking to?
(2) What would no one believe?
(3) What is Mrs. Packletide’s face compared to?
- (b) “We should greatly like to go to the states. But here, at present, we have other plans.”
- (1) Who is the speaker and whom is he talking to?
(2) Why doesn’t the speaker the speaker elaborate the other plans that he has?
(3) What characteristics traits of the speaker are revealed from the above lines?

Q2. Answer the following questions in 30-40 words:-

- (a) Was Mrs. Packletide successful in killing a tiger?
(b) Why did the boys hate the Germans?
(c) How was the tiger shooting arranged? What kind of tiger was chosen for the purpose?
(d) What kind of relationship did Mrs. Packletide and Loona Bimberton share?
(e) Why did Mrs Packletide want to kill a tiger?
(f) How can you say that the two boys were willing workers?
(g) Why didn’t the narrator go inside?
(h) Why doesn’t Mrs. Packletide indulge in big game of hunting anymore?
(i) Why could Ali not enjoy a sportsman’s pleasure of hunting anymore after Miriam left him?
(j) What does the woman search for in the mirror every day?
(k) Explain the title “The Letter” is appropriate or not.
(l) Which character do you like the most in the poem “Frog and the Nightingale”?

Q3. In a recent visit to a nearby joint/vegetable market, you were disturbed to see the filthy state of surroundings there. As a responsible citizen, prepare an active POSTER to promote ways to collaborate people to be part of “CLEANLINESS DRIVE” showing ways to keep their surroundings spick and span. (A-SIZE SHEET)

Q4. Read any of the ONE NOVEL and critically analysis it on the basis of its plot, structure, characters etc..

REVISE ALL THE SYLLABUS DONE IN THE CLASS.

ENJOY THE HOLIDAYS!!!!!!!!!!!!!!



प्रश्न 1 निम्नलिखित वाक्यों में उद्देश्य और विधेय छाटिए □

		उद्देश्य	विधेय
1	आप कुर्सी पर बैठ कर बातें करें ।	.....	.....
2	युवराज ने एक ओवर में छह छक्के लगाए ।	.....	.....
3	मुझे सड़क पर एक बटुआ मिला ।	.....	.....
4	रवि हाथ मुट्ठी धोकर खाना खा लो ।	.....	.....
5	शिकारी भूख से तड़पते हिरण को छोड़ दिया ।	.....	.....
6	वीर शिवाजी ने मातृभूमि के बंधन काटे ।	.....	.....
7	पुलिस को देखकर चोर भाग गया ।	.....	.....

प्रश्न 2 निम्नलिखित वाक्यों को सरल वाक्य में बदलिए □

- लड़का गाँव गया । वह बीमार हो गया ।
.....
- छात्र स्कूल से घर आया । वह खेलने चला गया ।
.....
- बच्चा माँ से रूठ गया । वह रोने लगा ।
.....
- वह घर गया । वह बीमार हो गया ।
.....
- एक दिन आधी आई । कई पेड़ आधी से गिर गए ।
.....

प्रश्न 3 रचना की दृष्टि से निम्नलिखित वाक्यों का भेद निर्धारण कीजिए ।

1 हमारे घर के समीप एक पाठशाला है ।

.....

2 पिता जी बाहर गए हैं [क]ल तक लौट आए[क] ।

.....

3 देश को ऊ[क] उठाना है तो दूसरों के नहीं [अ]पने दोष सुधारो ।

.....

4 जैसे ही हम लोग बगीचे में पहुँचे [क] एक व्यक्ति ने चिल्लाना शुरू कर दिया ।

.....

5 तुलसीदास जी ने कहा है कि विनाशाकाल में बुद्धि भ्रष्ट हो जाती है ।

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6 सुषमा आई और आकर चली गई ।

.....



प्रश्न 1 निम्नलिखित वाक्यों को निर्देशानुसार परिवर्तित कीजिए ☐

1 थोड़ा विश्राम करके आगे जाइएगा । ☐संयुक्त वाक्य में ☐

.....

2 आप कुरसी पर बैठकर बातें करें । ☐संयुक्त वाक्य में ☐

.....

3 परिश्रमी व्यक्ति के लिए कुछ भी दुर्लभ नहीं है । ☐मिश्र वाक्य में ☐

.....

4 गुणी को सभी आदर देते हैं । ☐मिश्र वाक्य में ☐

.....

5 जो बालक सत्य बोलते हैं ☐वै सभी को अच्छे लगते हैं । ☐साधारण वाक्य में ☐

.....

6 गाँव ☐में बाढ़ आई । जनजीवन अस्तव्यस्त हो गया । ☐सरल वाक्य में ☐

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7 छात्र स्कूल से घर आया । वह खेलने चला गया । ☐मिश्र वाक्य में ☐

.....

8 बच्चा घर पहुँचा। माँकी बड़ी खुशी हुई।

संयुक्त वाक्य में

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9 मैंने एक व्यक्ति देखा जो बहुत लंबा था।

सरल वाक्य में

.....

10 तुमने कहा और सब मान गए।

साधारण वाक्य में

.....

प्रश्न 2 निम्नलिखित वाक्यों को मिलाकर एक सरल एक मिश्र तथा एक संयुक्त वाक्य बनाइए।

क 1 सभा समाप्त हुई।

2 सब लोग चले गए।

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.....

.....

ख 1 गली में शोर हुआ।

2 सब लोग चले गए।

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.....

ग 1 माता जी ने काम समाप्त किया।

2 घर में मेहमान आ गए।

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घ 1 बादल गरज रहे थे ।

2 तेज़ वर्षा होने लगी

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ड 1 प्रधानमंत्री लाल किले की प्राचीर पर आए ।

2 सैनिक टुकड़ी ने सलामी दी ।

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- Q1. Make an illustrative project file for the following: **(FOR ROLL NO. 1 TO 8)**
- Choose any 5 wards from South Delhi Municipal Corporation.
 - Find the number/names of candidates who contested for the elections from these wards.
 - Note their ages and prepare a frequency distribution table for the same taking 25 - 30 as one of the intervals.
 - Find the mean, median and mode of the above data.
 - Construct histogram and frequency polygon for the same taking ages (in years) on x axis and number of candidates on y axis.
 - Collect information about qualification of these candidates and prepare a 'pie chart' under the following categories: Illiterate, up to class 10th, up to class 12th, graduate, post graduate and professionals.

OR

IPL 2018

(FOR ROLL NO. 9 TO 16)

Make an illustrative project file for the following:

- Collect information about the bidding value of all 11 players of any 3 teams of IPL 2017.
 - Find mean and modal bidding value for each team.
 - Find the median for the bidding values of each team.
 - Draw a pie chart to represent number of players from different countries in these 3 IPL franchises.
 - Draw histogram and frequency polygon to represent the runs scored by the winning team in the final match in different overs. Represent overs on the X axis (taking class intervals as 0 – 2, 2 – 4,) and run scored on Y axis.
- Q2. If α and β are the zeros of quadratic polynomial $f(x) = 3x^2 - 4x + 1$, find a quadratic polynomial whose zeros are $\frac{\alpha^2}{\beta}$ and $\frac{\beta^2}{\alpha}$.
- Q3. If α and β are the zeros of quadratic polynomial $f(x) = x^2 - 3x - 2$, find a quadratic polynomial whose zeros are $\frac{1}{2\alpha + \beta}$ and $\frac{1}{2\beta + \alpha}$.
- Q4. Find all zeros of the polynomial $2x^3 + x^2 - 6x - 3$, if two of its zeros are $-\sqrt{3}$ and $\sqrt{3}$.
- Q5. Solve: $3(2u + v) = 7w$
 $3(u + 3v) = 11w$
- Q6. Solve the following system of equations in x and y
 $ax + by = 1$
 $bx + ay = \frac{(a + b)^2}{a^2 + b^2} - 1$ or, $bx + ay = \frac{2ab}{a^2 + b^2}$
- Q7. Aruna has only ₹ 1 and ₹ 2 coins with her. If the total number of coins that she has is 50 and the amount of money with her is ₹ 75, then the number of ₹ 1 and ₹ 2 coins are?

Q8. If each α, β and γ is a positive acute angle such that $\sin(\alpha + \beta - \gamma) = \frac{1}{2}$, $\cos(\beta + \gamma - \alpha) = \frac{1}{2}$ and $\tan \gamma + \alpha - \beta = 1$.

- Q9. In an acute angle triangle ABC, if $\tan(A + B - C) = 1$ and, $\sec(B + C - A) = 2$, find the value of A, B and C.
- Q10. Prove that $(\sin^4 \theta - \cos^4 \theta + 1) \operatorname{cosec}^2 \theta = 2$
- Q11. If $\operatorname{cosec} \theta - \sin \theta = m$ and $\sec \theta - \cos \theta = n$, prove that $(m^2 n)^{2/3} + (mn^2)^{2/3} = 1$
- Q12. If $\sin \theta + \sin^2 \theta = 1$, find the value of $\cos^{12} \theta + 3 \cos^{10} \theta + 3 \cos^8 \theta + \cos^6 \theta + 2 \cos^4 \theta + 2 \cos^2 \theta - 2$
- Q13. If $a \sec \theta + b \tan \theta + c = 0$ and $p \sec \theta + q \tan \theta + r = 0$, prove that $(br - qc)^2 - (pc - ar)^2 = (aq - bp)^2$
- Q14. Find $\sin 75^\circ$ by using the result $\sin(A + B) = \sin A \cos B + \cos A \sin B$
- Q15. If we buy 2 tickets from station A to station B and 3 from station A to station C, we have to pay ₹795. Also, 3 tickets from station A to B and 5 tickets from A to C cost a total of Rs.1300. What is the fare from station A to B and that from station A to C?
- Q16. The sum of a 2 digit no and no obtained by reversing the order of digits is 99. If the digits of number differ by 3. Find the number.
- Q17. When a polynomial $6x^4 + 8x^3 + 17x^2 + 21x + 7$ is divided by the another polynomial $3x^2 + 4x + 1$, the remainder is in the form $ax + b$. Find a and b
- Q18. Find the largest number that will divide 398, 436, 542 leaving remainders 7, 11 and 15 respectively.
- Q19. Let the HCF of 210 and 55 be expressed as $210 \times 5 + 55K$. Find 'K'
- Q20. A journey of 192 km between two cities takes two hours less by a fast train than by a slow train. If the average speed of the slow train is 16 km/h less than that of the fast train, find the average speed of each train.

Practice questions daily at home...for 1 hour atleast.



Name: _____

Class: X

Date: _____

Subject: Chemistry

CHEMICAL REACTIONS AND EQUATIONS

Q 1. When a magnesium ribbon is burnt in air, what are the two observations that you make?

Q 2. Write a balanced chemical equation to represent decomposition of lead nitrate on heating. What are brown fumes due to?

Q 3. Write the following in the form of balanced chemical equations:- (a) Calcium carbonate decomposes on heating to form calcium oxide and carbon – di – oxide. (b) When ammonium hydroxide is added to a solution of iron (II) Sulphate, a green ppt of iron (II) hydroxide and ammonium Sulphate are formed. (c) When a nail of iron is added to a solution of copper Sulphate, iron (II) Sulphate and copper metal are formed. (d) Zinc reacts with dil hydrochloric acid to form zinc chloride and hydrogen gas is liberated.

Q 4 A student burnt a metal A found in the form of ribbon. The ribbon burnt with a dazzling flame & a white powder B is formed which is basic in nature. Identify A &B. Write the balanced chemical equation.

Q 5 An aqueous solution of metal nitrate P reacts with sodium bromide solution to form yellow ppt of compound Q which is used in photography. Q on exposure to sunlight undergoes decomposition reaction to form metal present in P along with reddish brown gas. Identify P&Q . Write the chemical reaction & type of chemical reaction.

Q 6. A copper coin is kept in a solution of silver nitrate for some time. What will happen to the coin and the colour of the solution?

Q 7. A,B&C are three elements which undergo chemical reactions in the following way $A_2O_3 + 3C \rightarrow B_2(SO_4)_3 + 3C_2A \rightarrow B_2O_3 + 2A$ $3CSO_4 + 2B \rightarrow A_2O_3 + 2B$ Answer the following (A) Which element is most reactive ? (B) Which element is least reactive .

Q 8 A water insoluble substance ‘X’ on reacting with dilute H_2SO_4 released a colourless and odourless gas accompanied by brisk effervescence. When the gas was passed through water , the solution obtained turn blue litmus red . On bubbling the gas through lime water , it initially became milky and the milkiness disappeared when the gas was passed in excess . Identify the substance ‘X’ and write the chemical equations of the reaction involved.

Q 9 A student has mixed the solutions of lead (II) nitrate and potassium iodide. (i) What was the colour of the precipitate formed? Can you name the compound precipitated ? (ii) Write the balanced chemical equation for this reaction. (iii) What type of reaction is it?

Q 10.Explain with suitable reasons :- (Write chemical equation also) (a) Silver bromide is become kept in dark coloured (brown coloured bottles) (b) Iron nails become brownish and then blue in colour when kept in copper sulphate solution. (c) Sodium sulphate reacts with barium chloride solution, a precipitation reaction

takes place. (d) Calcium oxide reacts vigorously with water to form slaked lime. (e) Carbohydrates broken down to form glucose combine with oxygen in cell provide energy.

Q 11. Identify the substances that are oxidised and the substances that are reduced in the following reactions:- (i) $\text{ZnO} + \text{C} \longrightarrow \text{Zn} + \text{CO}$ (ii) $\text{CuO} + \text{H}_2 \longrightarrow \text{Cu} + \text{H}_2\text{O}$ (iii) $\text{MnO}_2 + 4\text{HCl} \longrightarrow \text{MnCl}_2 + 2\text{H}_2\text{O} + \text{Cl}_2$

ACIDS, BASES AND SALTS

Q 1 Why does the flow of acid rain water into a river make the survival of aquatic life in the river difficult?

Q 2 Why should water be never added drop wise to concentrated sulphuric acid?

Q 3 Write balanced chemical equations for the reactions taking place when dry blue crystals of copper sulphate are dropped into concentrated sulphuric acid.

Q 4 What is the role of tartaric acid in baking powder?

Q 5 There are two jars A and B containing food materials. Food in jar A is pickled with acetic acid while B is not. Food of which jar will stale first?

Q 6 If soil is acidic which compound would you spread to treat the soil?

Q 7 Write two observations you make when quick lime is added to water.

Q 8 A calcium compound which is yellow white powder is used as disinfectant and also in textile industry. Name the compound. Which gas is released when this compound is left exposed in air?

Q 9 State the chemical property in each case on which the following uses of baking soda are based (i) As an antacid (ii) As a constituent of baking powder

Q 10 How is chlorine of lime is chemically different from calcium chloride?

Q 11 Name the acids present in the following foodstuffs which attribute to a sour taste to them (a) Lemon juice (b) Vinegar (c) Vitamin C tablet (d) Tamarind (e) Sour milk

Q 12 What does pH stand for? What does pH scale indicate?

Q 13 Sweet tooth may lead to tooth decay. Explain, why? What is the role of tooth paste in preventing cavities

Q 14 Write the names of five hydrated salts with their colours and formulae.

Q 15 How are bases different from alkalis? Are all bases alkalies ?

Q 16 What are strong acids and weak acids? Give two examples.

Q 17 How will you test a gas which is liberated when hydrochloric acid reacts with an active metal?

Q 18 Indicate with the help of a diagram the variation of pH with change in concentration of hydrogen ion and hydroxide ions showing (i) Increase of acidic and basic nature. (ii) Increase and decrease of H ion

Q 19 What are indicators ? Give examples and their colour changes in different medium.

Q 20 How will you prepare 100 times dilute solution from 1mL of concentrated sulphuric acid solution ? What precaution would you suggest and why?



Biology

Holidays Homework

Name: _____

Class: X

Date: _____

Q. Very short answer type question :-

- a) Name one substance which is produced in anaerobic respiration by an organism but not in aerobic respiration. _____
- b) Name one organism which can live without oxygen. _____
- c) Which part of root is involved in the exchange of respiratory gases?

- d) The trachea divides into two tubes at its lower end. What is the name of these tubes?

- e) What is the other name for windpipe? _____
- f) What organ is attached to the two bronchi? _____
- g) Name the type of respiration in which the end products is Lactic acid .

Q2. Differentiate the following :-

Breathing	Respiration

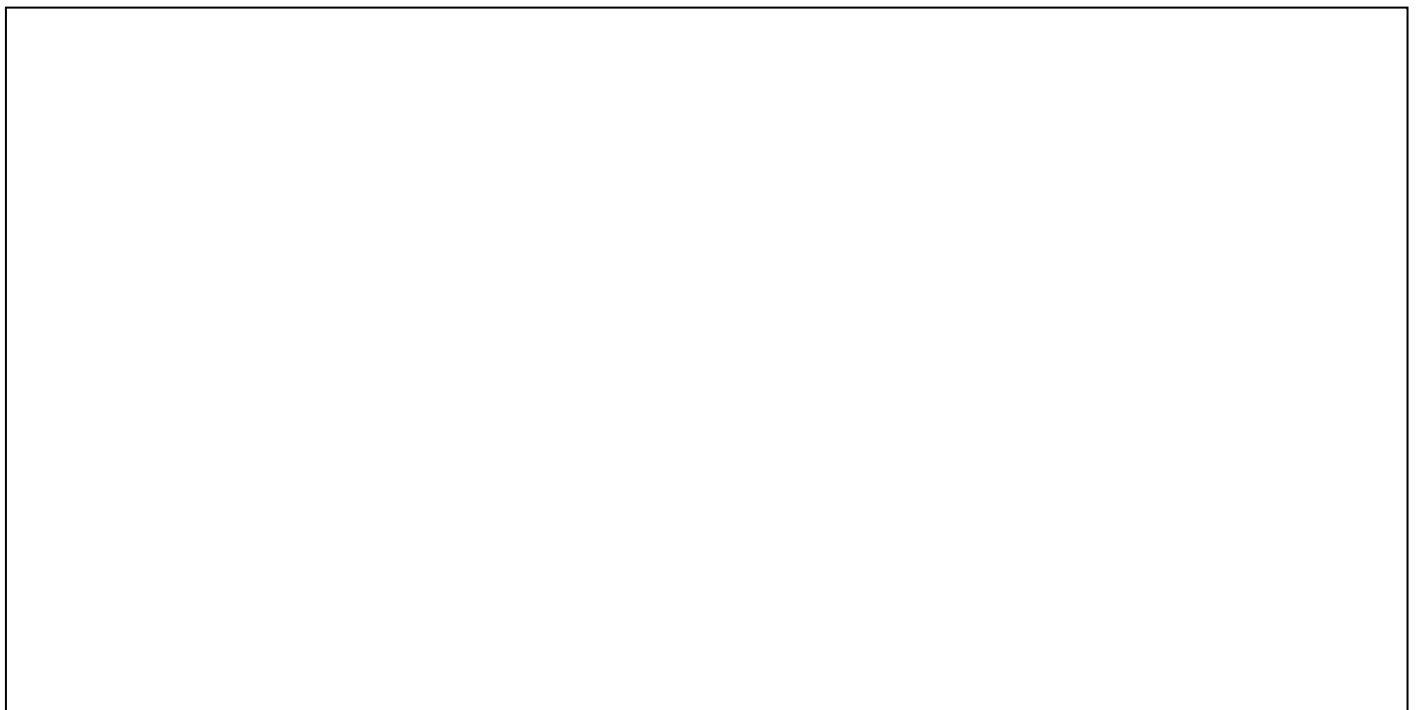
Q3 Answer the following questions:--

a) What is blood? Why is it red?

b) State the function of blood in our body.

c) What is meant by dialysis? What type of patients are put on dialysis?

Q4. Draw a neat labelled diagram of human excretory system:---





Task- I:

Prepare a project on any one topic given below:

- a) A Multi-purpose project
- b) Delhi metro railway
- c) Pollution problem in India
- d) India - means of transport

Materials that can be used:

- 1. Coloured A-4 sheets
- 2. A file to intact the sheets

Instructions:

- 1. The project should be handwritten.
- 2. Content and Originality is of utmost importance.

2. On the maps of India mark and label.

- 1) Atomic power stations
- 2) Iron and steel plants
- 3) International airports
- 4) Major seaports
- 5) Iron ore and coal mines

The above map should be pasted in the same project file as above.

Task II: Worksheet : History and Political Science



Name: _____

Date: _____

Subject: Social Studies

After a lot of discussions and explanations in the class about the various chapters, answer the following important questions for reinforcing the same. The answers should be written in history/Political Science/Geography classwork notebook and submitted on the first day of joining back school.

Q1. Give an account of the ethnic composition of Belgium and Sri Lanka.

Q2. What is majoritarianism? Explain with the example of Sri Lanka.

Q3. How is power shared among different social groups and why?

Q4. What made the Sri Lankan Tamils feel alienated?

Q5. "Culture played an important role in creating the idea of the nation in Europe" .Support the statement with an example.

Practice all the syllabus at home..

COMPUTERS

- 1.Create a PowerPoint Presentation on LiFi (LIGHT FIDELITY) TECHNOLOGY.**
- 2.Make a Time-Table of your class in an Excel worksheet and apply all formatting features, especially using the options of Alignment and Font groups.**