



ROYAL OAK INTERNATIONAL SCHOOL
SR. SEC. CBSE AFFILIATED
HOLIDAY HOME WORK (SESSION 2020-21)
Class - X



Please note the following:

- 5 marks for the Holiday Homework will be awarded to each student in the internal assessment for Term I progress report.

Wishing you all a very fruitful and enjoyable vacations. **HAPPY HOLIDAYS!**

Stay Home, Stay Safe. Adopt Social Distancing

FOR THE PARENTS

Summer vacations are here. So, we are coming out with feeling like an Easter flower in bloom rather than a cracked Easter egg!

1. Tap the talent of your child and let them be creative.
2. Keep at least half an hour a day for sharing experiences with your child.
3. Use holiday homework as an opportunity to spend quality time together. Let your child take the lead and use his/her imagination, creativity and knowledge to do the assigned task.
4. Learning doesn't stop when school is out. This rule came out of desperation.
5. Tell your child different stories regularly and encourage them to describe what they would do in a similar situation. Here are few suggested titles which you can read with your child.
 - a. Lacey-the little mermaid fairy.
 - b. Panchatantra stories.
 - c. Giraffe can't dance
 - d. I like myself
 - e. Dolphins at the day break.
6. Encourage your child to speak in English. Fix one hour in a day when you communicate with your child only in English.
7. Set a goal for yourself and your child. Spend 1 hour each day reading and writing. Plan a certain time that is convenient, perhaps right after the evening meal.
8. Develop self helpskills : Let your child dress and feed on their own.
9. Restrict his/her television watching, confining it to interesting children's program, discovery channel etc.
10. Make him/her understand the importance of cleaning his/her room .
11. Take good care of your health and hygiene. Avoid heavy and oily food and increase intake of fresh food and water to keep yourself well hydrated and energetic.
12. Introduce them to fun-filled activity boxes - These activity boxes help the children to nurture their creativity and imagination through art explorations, cooperative games, and challenging tasks.
13. Resources for talking to kids about COVID-19: The Child Study Centre hosts educational webinars throughout the year. In its latest webinar, Everyone is Anxious. Talking to your child about Novel Corona Virus, discuss how to help children cope with COVID-19 and provide ideas by diagnosis and developmental level.

Conclusion : It may not be easy for the parents to ban their children completely from watching TV or playing games on their phones in one shot. However, they can induce gradual changes by cutting down a few screen hours and introduce the above-mentioned activities to their schedule.

Have a nice time!

PRINCIPAL

ENGLISH

Attempt the following questions in your English Notebook.

- a. Do you think that Lencho was right to call the post office employees as a bunch of crooks? Why or why not?
- b. Explain the phrase "*Existence Of Humanity*" in context to the story, Letter to God.
- c. Imagine you are the speaker. Write a letter to your friend about a small incident that changed the course of your life in about 100 words. (Dust Of Snow)
- d. Discuss how can an extreme behavior hasten the end of the world with respect to the poem, Fire & Ice?
- e. Elucidate the importance of freedom and equality for all the citizens and describe how it is worthy for the civilization and humanism.
- f. All parental acts are for the betterment of the children. Justify this statement by taking points from the lesson, 'The First Flight'.
- g. Black Aeroplane is a beautiful portrayal of the power of imagination/ hallucination. How?
- h. **Edit the passage underlining the mistake present in every line by writing the correct word in the blank space.**

My day begins on five o'clock in the morning a) _____
It has been so since the last forty years b) _____
except for the two years of which I was c) _____
very ill. I wake up at the sound of an d) _____
alarm clock bought at 1952. e) _____
From then until today, it has never f) _____
let me down. My routine, however turns topsy-turvy
in holidays when I cannot sleep for ten O'clock. I have g) _____
maintained a fairly regular routine over my working years. h) _____
When I retire on two years' time, I hope I will be i) _____
able to continue this practice.

- i. **The following passage is incomplete. One word has been omitted in every line against which there is a blank. Indicate the place where the word has to be inserted with a / and write the word in the space provided.**

Parmesh and his friends planning a trip a) _____
during the summer vacations. While all of them b) _____
keen to get away from the heat, none them were able to suggest which place to visit. c) _____
It only draw of lots which could finally decide the matter. d) _____
They decided on Ooty as it neither too far away nor too crowded. e) _____
The date of departure and the duration of their stay still to be decided. f) _____
The announcement of their final exam date sheet still two weeks away. g) _____
Until then, each of them resolved h) _____
collect information about hill station. i) _____

- j. **Underline each error and write the correction in the space provided.**

One morning, the Nawab call a) _____
his minister and said him b) _____
that I wanted the length and c) _____
breadth from the earth d) _____
measured. He also feel the e) _____
need to have the stars on the f) _____
sky counted. The minister says g) _____
that the task he have been h) _____
set being impossible. i) _____

k. The following passage has not been edited. There is an error in each line against which there is a blank. Underline each error and write your correction in the space provided.

I entered the manager's office and sat down.

I have just lost five hundred rupees and I felt very upset.

a) _____

"I leave the money in my desk," I said,

b) _____

"and it is not there now". The manager was very sympathetic but he can do nothing. "Everyone loses money these days",

c) _____

he said, He start to complain about this wicked world, but is interrupted by a knock at the door.

d) _____

e) _____

A girl came in and puts an envelope on his desk.

f) _____

It contains five hundred rupees. "I found this

g) _____

outside this gentleman's room," she said.

"Well! I say to the manager, "there is still some

h) _____

honesty in this world !"

Attempt the following questions 1 to 5 in a new separate scrap book for English and submit when the school will reopen.

1. Compose a story on a Negro like Nelson Mandela in about 150 words.
2. Give a character sketch of Ausable, highlighting his quick and wise understanding of the people and situations.
3. Compare and contrast Hari Singh as a thief and a man.
4. Write an article on 'Farmers' Suicide in India' in about 150-200 words. Add on the reasons, solutions etc.
5. You feel very much thankful to doctors, nurses and the service providers who help you win the battle against the pandemic COVID-19. Write a letter to editor of Hindustan Times, New Delhi, urging him to highlight and glorify their efforts. You are Smiti/Smith, President of Residents Welfare Association, Asha Society, Noida.

HINDI

(1) दिए गए संकेत बिंदुओं के आधार पर लगभग 100 शब्दों में अनुच्छेद लिखिए ।

(क) नागरिकता संशोधन कानून/बिल (CAA)

संकेत बिंदु- परिचय, आलोचना क्यों, लाभ, निष्कर्ष

(ख) राष्ट्र के प्रति विद्यार्थियों का कर्तव्य संकेत बिंदु- सुरक्षित राष्ट्र की कामना, विद्यार्थियों का कर्तव्य, संकटों में सहायक, राष्ट्रप्रेमी विद्यार्थी

(2) (क) रूपक ए.सी की विशेषताएँ बताते हुए 30 से 35 शब्दों में एक विज्ञापन तैयार कीजिए ।

(ख) ग्रीष्मावकाश में आप निरक्षरों को साक्षर करना चाहते हैं । इस पर 'साक्षरता अभियान संबंधी 30 से 35 शब्दों में विज्ञापन तैयार कीजिए ।

(3) (क) गत कुछ दिनों से आपके क्षेत्र में अपराध बढ़ने लगे हैं । इससे आप चिंतित हैं । इन अपराधों की रोकथाम के लिए थानाध्यक्ष को पत्र लिखिए ।

(ख) कुछ विभागों के सूचनापट्टों पर अशुद्ध हिंदी लिखी मिलती है । इस ओर ध्यान आकृष्ट करते हुए किसी समाचार-पत्र के संपादक को पत्र लिखिए ।

(4) दिए गए शीर्षक एवं शिक्षा के आधार पर एक लघु कथा (छोटी कहानी) लिखिए।

शीर्षक – मूर्ख मित्र

शीर्षक – मूर्ख मित्र की अपेक्षा विद्वान शत्रु अधिक अच्छा होता है ।

(5) संत कबीरदास, मीराबाई, मुंशी प्रेमचंद और सीताराम सेकसरिया का जीवन परिचय तथा मुहावरे याद करिए।

(निर्देश – उपरोक्त कार्य अपनी व्याकरण उत्तर पुस्तिका में लिखिए तथा याद करिए।)

MATHS

ACTIVITY : Find the H.C.F of two numbers experimentally based on Euclid Division Lemma .(only for Roll.No – 1 to 16)

ACTIVITY: To draw the graph of quadratic and observe the shape of the curve when the coefficient of x^2 is (i) positive(ii) negative(iii)zeroes (only for Roll.No – 17 to 35)

1. If α, β are zeroes of the quadratic polynomial $x^2 - 6x + 10$, find the value of $\alpha^3 + \beta^3$.
2. Solve for x and y for the pair of equations $148y + 231x = 527xy$ and $231y + 148x = 610xy$.
3. Find the value of k for which the equations have infinite solutions.
 $x + (k+1)y = 5$ and $(k+1)x + 9y = 8k - 1$ Ans:- $k = 2$
4. If the sum of the zeroes of the quadratic polynomial $kx^2 + 2x + 3k$ is equal to their product, find k.
5. Find the smallest number which when increased by 17 is exactly divisible by both 520 and 468.
Ans:- 4663
6. If $(3)^{x+y} = 81$ and $(81)^{x-y} = 3$, then find the values of x and y. Ans:- $x = \frac{17}{8}, y = \frac{15}{8}$
7. Prove that $4 + \sqrt{2}$ is irrational.
8. If $(x-a)$ is the factor of the polynomial $x^3 - mx^2 - 2nax + na^2$, Prove that $a = m+n, a \neq 0$.
9. If α, β and γ are the zeroes of the cubic polynomial $p(x) = 3x^3 - 6x^2 + 5x - 3$, then, find their sum and product.
10. Draw the graph of $2x + y = 6$ and $2x - y + 2 = 0$. Shade the region bounded by these lines and x axis. Find the area of the shaded region. Ans:- 8 sq.units
11. Given that $\sqrt{2}$ is a zero of the cubic polynomial $6x^3 + \sqrt{2}x^2 - 10x - 4\sqrt{2}$, find its other two zeroes.
Ans :- $\frac{-2\sqrt{2}}{3}, \frac{-\sqrt{2}}{2}$
12. Prove that square of each odd number is of the form $8k+1$.
13. A circular field has a circumference of 360 km. Three cyclists start together and can cycle 48, 60, 72 km a day round the field after how many days will they meet again. Ans:- 60 Days
14. Find the remainder of $\frac{52 \times 81 \times 90}{7}$. Ans:- 2
15. A train crosses a platform 90m long in 30sec and a man standing on a platform in 15sec, find the speed of the train. Ans:- 6m/s

Note: - Practice all the above questions along with all examples of N.C.E.R.T in a separate note book.

SST

NOTE – Project A and B are mandatory for all.

❖ **(A) Rough draft for the project on Disaster Management :-**

- Generating awareness on Disaster Management
- Safe Construction Practices
- Survival Skills
- Alternative Communication
- Sharing Responsibilities.

❖ **(B) Prepare a poster on any one topic with a appropriate slogan– (A3 sheet)**

- Villages are the pride of India
- Rising crime against women
- Drug abuse among Indian teenager

❖ **(C) Prepare project file on Consumer Rights**

Must begin the project by including the following parameters (minimum sheets 25):

- Cover page includes – project title, student information, school and academic year .
 - List of content with page number.
 - Certificate page
 - Acknowledgement (giving credit to those who helped you in this project)
 - Project overview (brief idea about the project)
 - Content sheet (10 to 12 with relevant photographs OR maps)
 - Conclusion
 - Bibliography (the book you read and the website you visited for the project)
- Roll no. 1-10 : Right to be protected
Roll no. 11-20 : Right to be Informed
Roll no. 21-30 : Right to Choose
Roll no. 31 onwards : Right to seek Redressal

Please note that the project carries 20 marks and will be assessed on the following rubrics:

- Relevance and accuracy of the content shared in the project: 5 marks
 - Creativity of Expression: 5 marks
 - Presentation of project with the help of diagrams, pictures and maps: 5 marks
 - Organization of Facts: 5 marks
- ❖ **Prepare complete syllabus for Periodic Assessment I .**

SCIENCE

(NOTE: Holiday homework should be done in Subject notebook only)

CHEMISTRY

ASSIGNMENT

Very Short Answer Type Questions

1. Name the term used for the physical state of the solution of the reactant or product dissolved in water.
2. What is meant by thermal decomposition?
3. Name the chemical reaction in which heat is absorbed.
4. Name the gas which burns with a pop sound.
5. Name the type of reaction in which two or more substances combine to form a new single product.

Short answer Type Questions

Q.1 Express the following reactions in the form of chemical equations and balance them. Make an equation as informative as you can. Also mention the type of reaction :-

- (a) When solid mercury (II) oxide is heated, liquid mercury and oxygen gas are produced.
- (b) Magnesium ribbon is burnt in a jar containing nitrogen gas when a white powder of magnesium nitride is obtained.

Q.2 Balance the following chemical reactions :-

- (a) $\text{Al}(\text{OH})_3 \longrightarrow \text{Al}_2\text{O}_3 + \text{H}_2\text{O}$
- (b) $\text{Cu} + \text{AgNO}_3 \longrightarrow \text{Cu}(\text{NO}_3)_2 + \text{Ag}$
- (c) $\text{KClO}_3 \longrightarrow \text{KCl} + \text{O}_2$

Q.3 Name the substances oxidized, reduced, oxidizing agent and reducing agent in the following reactions :-

- (a) $3\text{MnO}_2 + 4\text{Al} \longrightarrow 3\text{Mn} + 2\text{Al}_2\text{O}_3$
- (b) $\text{Fe}_2\text{O}_3 + 3\text{CO} \longrightarrow 2\text{Fe} + 3\text{CO}_2$

Long Answer Type Questions:

Name the type of chemical reactions and also write chemical equations taking place when:-

- (i) Lime stone is heated.
- (ii) Magnesium ribbon is burnt in air.
- (iii) Iron nails are dipped in copper sulphate solution.
- (iv) Burning of coal.
- (v) Sodium sulphate is mixed with barium chloride.

- Solve and learn NCERT Intext questions and Exercise of Ch.1. Chemical reactions and equations and Ch.2. Acids, bases and salts.
- Solve and learn NCERT Exemplar questions of Ch.1. Chemical reactions and equations and Ch.2. Acids, bases and salts.

BIOLOGY:

ACTIVITY: On A3 sized sheet represent any one of the following life processes according to your own creativity.

i- Nutrition

ii- Respiration

iii- Transportation

iv- Excretion

Assignment

Q1. What do you mean by double circulation of blood?

Q2. Explain why Bile juice does not contain any digestive enzymes, yet it is essential for digestion.

Q3. How would non – secretion of hydrochloric acid in our stomach affect food digestion?

Explain.

Q4. Draw a diagram of cross section of human heart. Show the path of flow of blood with the help of arrows.

Q5. How water is transported upwards in plants?

Q6. Describe the functioning of nephron.

Q7. How is small intestine designed to absorb digested food?

Q8. Why is it necessary to separate oxygenated and deoxygenated blood in mammals and birds?

- Practice the INTEXT and NCERT questions of Ch. Life processes and do on Fair notebook.
- Do the activity 6.1 and 6.2 mentioned in NCERT book on Fair notebook.

PHYSICS:

Assignment

SECTION A:

1. Define the term resistivity.
2. Device used for measuring the current is..... .
3. Name the element of filament of a bulb.
4. Write two types of resistors combination.
5. How the voltmeter and ammeter are connected in a circuit ?
6. Why the filament of bulb has high melting point ?
7. How does fuse wire protect electrical appliances ?
8. Find the number of joules in 1 KWh.
9. Find a relationship between P, I and V.
10. On what factors does resistance of a conductor depend ?

SECTION B:

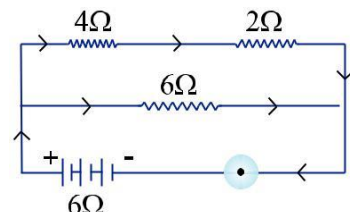
1. State Ohm's law. Derive relation between I, V and R. Draw the graph between V and I.
2. What is Joule's heating effect of current P ? Derive its expression.
3. What would be new resistance if length of conductor is doubled and thickness is halved ?
4. Find the effective resistance between A and B.
5. Why parallel arrangement is better than series?
6. Why mostly heating electrical appliances are made up of nichrome & chromium?
7. What do you mean by joule heating effect of current?
8. How resistance of a material varies with length, area & temperature?

SECTION C:

1. Explain the Joule's law of heating. How and on what factors does the heat produced in a conductor depends ?
2. In the circuit given below, calculate :
3. In the given circuit below calculate:

Total effective resistance.

Potential difference across 4Ω, 2Ω.

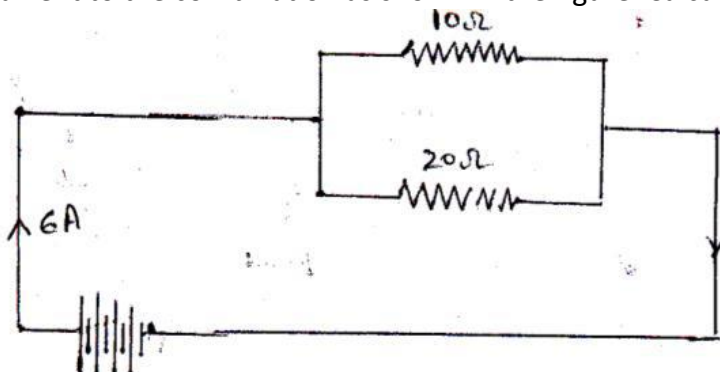


4. Three resistances of 2Ω , 3Ω and 5Ω are connected in electric circuit. Find :

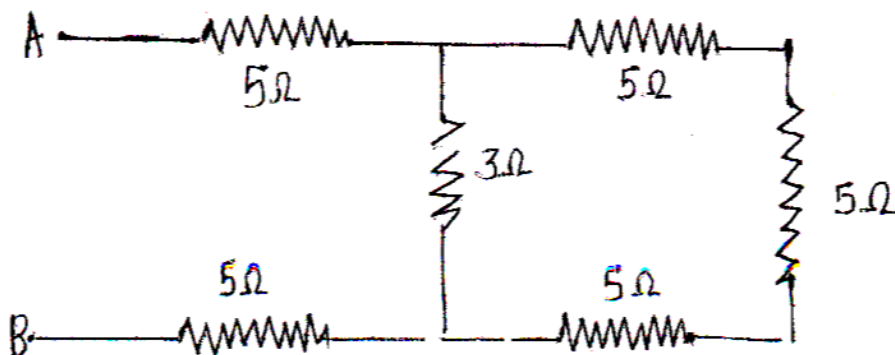
- maximum effective resistance.
- minimum effective resistance.

5. On what factors, the resistance of a conductor depends ? Give the mathematical expression. Give the SI unit of resistivity.

6. Two resistances of 10 ohm and 20 ohm are connected in parallel. A battery provides 6A of current to the combination as shown in the figure. Calculate the current in each resistor?



Q7. Calculate the resistance between A and B of the circuit shown



VALUE BASED QUESTION:

1. That night Vinay was preparing for his science exam. Suddenly light of his room went off. His cousin brother Vasu quickly with mobile phone torch found that fuse has blown. He checked and put a fuse wire. The light came to life again. Vinay thanked Vasu and continued his study.

What were the values displayed by Vasu and Vinay ?

What is electric fuse ?

What characteristics would you prefer for a fuse wire ?

INFORMATION TECHNOLOGY

Roll No. (1 to 11):-

- a) Create a worksheet using the sales data given below: Create bar and line charts using this data. Enhance the design of your chart to make it more presentable.

	A	B	C	D	E
1	Location	January	April	July	October
2	Acapulco	10	5	208	145
3	Amsterdam	69	53	76	74
4	Anchorage	17	13	42.5	52
5	Dallas	48	87.5	62	118
6	Glasgow	110	50	61	112
7	Madrid	39	48	11	53
8	New York	99	100	115	86
9	Tokyo	101	121	189	172
10	Toronto	55.2	65.4	71	63.5

- b) Calculate the total sales for each city. Create a pie chart representing the total sales of each city.

Roll No. (12 to 23):-

- a) Create a list of all your personal expenses made during the month and calculate the total expenses using the autosum function
- b) Create a worksheet (given), calculate the cost of Vegetables. Save the workbook as Grocery_{your name}.

GROCERIES PRICE LIST	
ITEM	COST
Apple	30
Banana	5
Cabbage	20
Cauliflower	20
Cherry	20
Chucumber	100
Chilli	30
Ginger	60
Mango	12

Roll No. (24 onwards):-

- a) Create a list of names of the month and holidays in that month. Add and calculate the total number of holidays in a year using the autosum function.
- b) Create a student mark list of at least 10 students and five subjects. Highlight the marks of the students who got marks greater than 80 with green colored text with blue fill. Save the worksheet as Marks_{your name}.

❖ **Prepare chapters:** Unit-1 : Functional English, Unit-2: Web application and Unit-4 : Spreadsheet



*Happy
Holidays*



A festive graphic featuring the text "Happy Holidays" in a black, elegant cursive script. The word "Happy" is positioned above "Holidays". To the left of the text is a small cluster of green holly leaves and three red berries. Below the text is a decorative red ribbon flourish that curves under the word "Holidays".