

J. H. TARAPORE SCHOOL

WORKSHEET

Biology

Std. IX

1. Draw and label a plant and an animal cell to bring out the differences between them. (4)
2. Explain the following terms (5)
 - a) Ornithology
 - b) Mycology
 - c) Entomology
 - d) Zoology
 - e) Sericulture
 - f) Pisciculture
3. State the function of (6)
 - a) Mitochondria
 - b) Cell wall
 - c) Cell membrane
 - d) Ribosomes
 - e) Chloroplast
 - f) Endoplasmic Reticulum
4. What are hormones? Differentiate between Endocrine and Exocrine glands. (3)
5. How can we keep our heart healthy? (1)
6. Explain any one problem related to adolescence. (1)

J. H. TARAPORE SCHOOL

REVISION WORKSHEET -2 (2020-2021)

BIOLOGY

Std. IX

- 1 Draw a plant cell and an animal cell and label the 8 parts (4)
- 2 Name the organelles present only in the a) plant cell. b) animal cell and give their functions (4)
- 3 Give two structural differences and two quantitative differences between them (2)
4. Give the differences between prokaryotic and eukaryotic cell (3)
5. Give reasons for (3)
 - i) Cell is the structural and functional unit of life.
 - ii) Plasma membrane is selectively permeable.
 - iii) lysosomes are known as the suicide bag of a cell.
6. Give the functions of the following organelles (4)
 - a) nucleus
 - b) ribosomes
 - c) endoplasmic reticulum
 - d) golgi bodies

J.H.Tarapore School
History Revision Worksheet-1(2020)
Std– IX

Answer the following questions:

- Q1) Name any three principal organs of the United Nations.
- Q2) When is UN day celebrated?
- Q3) Name any two official languages of the UN.
- Q4) Mention any one objective of the United Nations.
- Q5) Mention any two qualifications required to be the President of India.
- Q6) Name the machines invented by James Hargreaves and James Watt.
- Q7) Who founded the BrahmoSamaj?
- Q8) Name the university founded by Sir Syed Ahmad Khan.
- Q9) Who was the member of the Theosophical Society?
- Q10) Who launched the Quit India Movement?

J.H.Tarapore School
History Revision Worksheet-2(2020)
StdIX

Q1) What do the following acronym stand for:

- i. ILO
- ii. UNESCO
- iii. WHO
- iv. UNDP
- v. UNICEF
- vi. FAO

Q2) Mention any one function of the following and their headquarters;

- i. WHO
- ii. UNICEF
- iii. UNDP
- iv. UNESCO

J H TARAPORE SCHOOL
English Language worksheet -1 (2020-2021)
Std IX A/B/C/D

1. Rewrite the sentences followed by the instructions, without changing its meaning :
 1. Why did Renuka skip the test? (Change the Voice)
 2. “ Did you understand the poem taught yesterday?”, asked the teacher. (Begin: The teacher asked)
 3. He snatched the ball and scored a goal. (Begin: Not only)
 4. The Kotla ground was too damaged to conduct the match. (Use: so...that)
 5. As soon as the match started, the crowd turned violent. (Use: No sooner...)
 6. The Hurt Locker is one of the best movies released this year. (Transform into positive degree of comparison) (hint: good)
 7. The police are looking into the matter. (Provide a suitable question tag)
 8. Not many people read for pleasure these days. (Begin: Few)
 9. Susan hid her grandmother’s spectacles. (Begin: Her grandmother’s...)
 10. Ali was too embarrassed to speak clearly. (Begin: Ali was so....)
2. Fill in the blanks with suitable prepositions:
 1. The rescuers ran short _____ adequate assistance.
 2. We should attribute our success _____ our parents and teachers.
 3. The minister resigned _____ the cabinet due _____ ill health.
 4. The flood victims were resigned _____ their fate.
 5. The curfew was imposed _____ all the areas of the city.
 6. Pratik preferred to stay safely _____ the other side of the river.
 7. Put this jacket _____ your shirt as it is chilly outside.
 8. When the car broke _____, we had to walk home.
 9. He was condemned _____ death.
 10. Geetika took the file _____ the closet and walked out of the cabin.
 11. Let us hope _____ the best!
 12. We were just talking _____ you.
3. Your school is conducting an Inter-class Talent search. Write a notice to be put up in your school informing the students about the event and inviting them to participate.
4. Write an e-mail to the principal of your neighbouring school requesting him/her to send a team of teachers to judge the event.

J H TARAPORE SCHOOL
English Language worksheet -2 (2020-2021)
Std IX A/B/C/D

1. Fill in the numbered blanks with the correct form of the word given in the bracket. Do not copy the passage, but write the answers in correct serial order.

Suman (0) **looked** (look) out of the window. She (1) _____ (catch) sight of the board (2) _____ (bear) the station's name. She was so (3) _____ (amaze) that she almost (4) _____ (fall) out of her compartment. She was back in her home town after (5) _____ (travel) for sixty kilometres, here she (6) _____ (is) home again. She (7) _____ (climb) out of the compartment slowly.

2. Fill in the blanks with suitable words:

Once we receive the question paper, we should be sure to answer the questions we know. (1) _____ (answer) questions that you find easy because that gives us the confidence and save time for the rest of the questions (2) _____ (peace). When we get a choice, we need to select problems because they can be (3) _____ (solve) in less time and can be sure of full marks. After (4) _____ (answer) every question, we should revise the answer. This would be useful in case we don't find time to review the answer sheet (5) _____ (late). After (6) _____ (complete) the answer sheet, we should sit back and wait for the result of our hard work.

3. Do as directed:

1. Why did Rahul skip the match? (Change the Voice)
2. "I saw a panther this morning", he said. (Rewrite using Indirect Speech)
3. Kiran is the fastest runner in our school. (Begin : No other)
4. If Aruna practices, she will win the competition. (Begin: Unless)
5. As soon as the elections results were out, the victory procession started. (Begin : No sooner)

4. Join the following sentences without using **and**, **but** or **so**:

1. The teacher arrived. The class started.
2. The drive was so tedious. I fell asleep on the backseat.
3. Stop talking. Leave the classroom.
4. He was found in possession of the stolen goods. He was punished.
5. It is not a new car. It is still reliable.
6. He studied. He failed.
7. I was annoyed. I kept quiet.
8. I have some duties. I have to perform them.
9. Hurry up. You will be late.
10. The necklace was expensive. I couldn't buy it.
11. He heard the tragic news. He told others.

J.H.TARAPORE SCHOOL

GEOGRAPHY 2020-2021

REVISION WORKSHEET 1

Std.IX

F.M.20

On the river world map in the map booklet, mark the following:-

- | | |
|---------------------|-------------------------|
| i) Tropic of Cancer | ii) Tropic of Capricorn |
| iii) Arctic Circle | iv) Antarctic Circle |
| v) Equator | vi) Prime Meridian |
| vii) Southern Ocean | viii) Indian Ocean |
| ix) Atlantic Ocean | x) Pacific Ocean |
| xi) Arctic Ocean | xii) Asia |
| xiii) Africa | xiv) North America |

J.H.TARAPORE SCHOOL

GEOGRAPHY 2020-2021

REVISION WORKSHEET 2

Std.IX

F.M.20

Define the following terms:-

- | | |
|-----------------------|--------------------|
| i) Rotation | ii) Revolution |
| iii) Equator | iv) Latitudes |
| v) Longitudes | vi) Prime Meridian |
| vii) Volcanoes | viii) Earthquakes |
| ix) Continental Shelf | x) Tributary |

J. H. Tarapore School

Chemistry(2020-2021)

Std 9

Revision Worksheet

P.S.: Make a new notebook and write the following radicals everyday. Do not forget to mention the date of work.

Question 1. Write the symbol for the following radicals along with charge.

Name	Symbol	Name	Symbol
1. Ammonium		A. Carbonate	
2. Sodium		B. Bicarbonate	
3. Calcium		C. Oxide	
4. Zinc		D. Chloride	
5. Aluminium		E. Nitrate	
6. Iron(II)		F. Nitrite	
7. Lithium		G. Nitride	
8. Mercury(I)		H. Sulphate	
9. Mercury(II)		I. Sulphite	
10. Magnesium		J. Sulphide	
11. Copper(I)		K. Acetate	
12. Copper(II)		L. Peroxide	
13. Gold(I)		M. Chlorite	
14. Silver(I)		N. Hypochlorite	
15. Silver(II)		O. Chlorate	
16. Iron(III)		P. Perchlorate	
17. Gold(III)		Q. Permanganate	
18. Tin (II)		R. Dichromate	
19. Nickel		S. Aluminate	
20. Platinum(IV)		T. Zincate	

J. H. Tarapore School

Chemistry(2020-2021)

Std 9

Revision Worksheet

P.S.: Make a new notebook and write the following radicals everyday. Do not forget to mention the date of work.

Question 1. Write the name for the following radicals.

Symbol	Name	Symbol	Name
1. Li^+		A. CH_3COO^-	
2. NH_4^+		B. CO_3^{2-}	
3. Mg^{2+}		C. O^{2-}	
4. K^+		D. OH^-	
5. Cu^{2+}		E. ClO_3^-	
6. Fe^{3+}		F. CN^-	
7. H^+		G. C^{4-}	
8. Al^{3+}		H. N^{3-}	
9. Cr^{3+}		I. PO_4^{3-}	
10. Ag^{2+}		J. SO_4^{2-}	
11. Li^+		K. $\text{Fe}(\text{CN})_6^{4-}$	
12. NH_4^+		L. PO_3^{3-}	
13. Mg^{2+}		M. $(\text{COO})_2^{2-}$	
14. K^+		N. HS^-	
15. Cu^{2+}		O. AlO_2^-	
16. Fe^{3+}		P. CrO_4^{2-}	
17. H^+		Q. AlO_3^{3-}	
18. Al^{3+}		R. P^{3-}	
19. Cr^{3+}		S. SnO_3^{2-}	
20. Ag^{2+}		T. S^{2-}	

J. H. TARAPORE SCHOOL
REVISION WORKSHEET -1 (2020-2021)
COMPUTER APPLICATIONS
Std. IX

I. Fill in the blanks:

1. A program written in human readable form is known as _____.
2. Father of the java programming language _____.
3. _____ are real world entities or items.
4. A _____ represents a group of objects of the same kind.
5. _____ is the technique of binding both data and functions together.
6. _____ apps are usually developed for a specific operating system and device.
7. Buying and selling of Goods and Service using electronic means is known as _____.
8. _____ are the reserved words of a java program.
9. A _____ is a communication device, used to regenerate a signal.
10. A _____ is a communication device that is used to connect two different networks.

II. Solve the following java expressions and predict the output:

1.

```
int x = 4;
x = (x++) + (++x) + x;
System.out.println(x);
```
2.

```
int k = 5, j = 9;
k += k++ - ++j + k;
System.out.println("k = " + k);
System.out.println("j = " + j);
```
3.

```
int m = 11, n = 10, p;
i) p = ++m * 4 - n++ * 2;
ii) p = (n--) % 4 + (m--) % 2;
```
4. Find the value of:
i)

```
int p = 5, q = 7;
r = --p * q++ * 2;
```


ii)

```
int a = 14, b = 10, c = 5;
d = (++a * (b++ - c));
```

III. Define the terms:

1. Modem: _____

2. Tokens: _____

3. Abstraction: _____

4. Variables: _____

5. Hub: _____

IV. Answer the following questions:

1. Give one difference between while loop and do while loop.

2. What do you understand by the term Polymorphism?

3. Write four advantages of networking.

4. Write the names of four data types used in java along with its size.

V. Programming:

1. Write a program in java to check whether the number entered by the user is a prime number or not.

2. Write a program in java to generate the following series upto 10 terms: 1,9,25,49.....

J. H. TARAPORE SCHOOL
REVISION WORKSHEET -2 (2020-2021)
COMPUTER APPLICATIONS

Std. IX

I. Answer the following questions based on Java:

1. Give the syntax of the if statement with an example.
2. Write the syntax/general format of for statement. Give an example.
3. Write the output of the following code in Java:

- a.

```
int a = 8, b = 18;
System.out.println("a = " + a + "\tb = " + b);
System.out.println("Sum + " + (a + b));
System.out.println("Difference = " + (b - a));
```
- b.

```
int x = 4, y = 81;
System.out.println(x > y);
System.out.println(++x + (y % x));
```
- c.

```
int a = 5, b = 2, c = 8;
b += ++a - b;
c -= a++ + ++b;
System.out.print("a = " + a + "\nb = " + b + "\nc = " + c);
```
- d.

```
int a = 5, b = 3;
b += ++a + a++;
System.out.print("a = " + a + "\nb = " + b);
```
- e.

```
int x = 20, y = 10, z;
z = ++x * (y --) - y
System.out.print(z);
```

4. Write the following expression in one Java statement:

- a. $t = 3 / 7 (a^2 + d^3)$
- b. $(a+b)^2 = a^2 + b^2 + 2ab$

5. Predict the output for the following program snippet:

- a.

```
for(a = 1 ; a <= 10; a = a + 2)
{
    System.out.print(a + " ");
}
```
- b.

```
for(a = 10 ; a >= 0; a --)
{
    System.out.println(a);
}
```
- c.

```
int a = 1;
while(a <= 10)
{
    System.out.println("4 * " + a + " = " + 4 * a);
    a = a + 1;
}
```

II. Java Programming:

1. WAP in Java to generate the first ten terms of the following series :
 - a. 1, 4, 9, 16,.....
 - b. 0, 7, 26,.....
2. WAP in Java to calculate the sum of all odd numbers and even numbers between the range 1 to 30.
3. WAP to check whether a number entered by the user is a BUZZ NUMBER or not.
A BUZZ NUMBER is the number which ends with 7 or is divisible by 7.
4. WAP in Java to input the basic salary of a person. He get 15% of the basic as HRA, 15% of the basic as Conveyance allowance and 10% of the basic as Entertainment allowance. The total salary is calculated by adding Basic + HRA + Conveyance + Entertainment Allowance. Calculate and print the total salary of person.
5. WAP in Java to print all the factors of a number entered by the user.
6. WAP in Java to accept a number and check whether the number is perfect number or not. A number is called perfect number, if the sum of all factors (except number itself) of the number is equal to that number. (For e.g. 6 is a perfect number. Factors are 1, 2 & 3 and the sum is $1+2+3 = 6$.)
7. WAP in Java to accept the temperature in Celsius and convert it in Fahrenheit.
(Hint: $F = 9/5 \times C + 32$)
8. WAP in Java to accept a number from the user and print the corresponding days of the week using Switch Case.
E.g: 1= Monday, 2=Tuesday,....

CHAPTER – INDICES

1. a) Write $a^2 \times a^3$ in the form of a^n
- b) Write $a^{-2} \times a^3$ in the form of a^n
- c) Write $\left(\frac{4}{7}\right)^{-1}$ in the form of rational no.....
- d) Simplify $2 \times 10^3 + 2 \times 10^2$
- e) $\{(5)^3\}^2 =$
- f) If $49^m = 7^{3-m}$, evaluate m
- g) Simplify $\frac{4x^2y^3}{xy}$
- i) Write $5^{\frac{-2}{3}}$ as root
- j) Simplify $\left(\frac{3x^5y^3}{2y^2}\right)^{-1}$

2. Simplify :

$$\frac{a^{-1}}{a^{-1}} + b^{-1} + \frac{a^{-1}}{a^{-1}} - b^{-1}$$

3.

Simplify : $\frac{16 \times 2^{n+1} - 4 \times 2^n}{16 \times 2^{n+2} - 2 \times 2^{n+2}}$

Show that $(x^{a-b})^{a+b} \cdot (x^{b-c})^{b+c} \cdot (x^{c-a})^{c+a} = 1$

4.

CHAPTER – FACTORISATION

Example:

Factorise : $7st + 14s + t + 2$

$$\begin{aligned}\text{Solution : } 7st + 14s + t + 2 &= 7s(t + 2) + 1(t + 2) \\ &= (7s + 1)(t + 2)\end{aligned}$$

1. $8x + 24 =$

2. $32 - 40w =$

3. $18c - 36 =$

4. $12s^2t + 28s =$

5. $36p^3q^4 - 48p^4q^2 =$

Factorize using middle term factorization:

1. $x^2 + 3x + 2$

2. $a^2 + 7a + 6$

3. $4x^2 - 12xy + 9y^2$

4. $16a^4 - b^4$

5. $9x^2 + 42xy + 49y^2$

6. $16a^4 - 72a^2b^2 + 81b^4$

7. $(x^2 + y^2 + 2xy) - z^2$

8. $a^2 + 22a + 121$

9. $256 - x^2 - 2xy - y^2$

10. $x^2 + xy - x - y$

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कक्षा – IX

Question 1.

छात्रावास में रहने वाले छोटे भाई को पत्र लिख कर "समय के सदुपयोग" के महत्व पर प्रकाश डालिए।

Question 2. विलोम शब्द लिखें :-

परतंत्र, स्मरण, उदारता, सक्रिय, सामान्य, आलोक, मालिक, मान

Question 3. मुहावरों से वाक्य बनाइए :-

अक्ल पर पत्थर पड़ना, अपना उल्लू सीधा करना, आसमान टूटना, खून खौलना, आँख का तारा

Question 4. वर्तनी शुद्ध करें :-

क्रितग्य, कवित्रि, कार्कर्म, कनिष्ठ. केन्द्रीयकरण, छमा

Question 5. पर्यायवाची :-

पुष्प, पक्षी, अमृत, आभूषण, सेवक, पेड़

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कक्षा – IX

Question 1.

मानव जीवन में हास्य का महत्वपूर्ण स्थान है। "हँसो और हँसाते रहो" के सिद्धांत से अनेक समस्याएँ सुलझ जाती हैं। इस कथन को ध्यान में रख कर हँसने के लाभ पर अपने विचार दीजिये।

Question 2. विलोम शब्द लिखें :-

विजय, श्रीगणेश, सात्विक, स्वाधीन, सरस, नकली, पक्ष

Question 3. मुहावरों से वाक्य बनाइए :-

आँखे खुलना, दाल में कला होना, नमक मिर्च लगाना, भीगी बिल्ली बनना, रंग में भंग होना

Question 4. वर्तनी शुद्ध करें :-

सन्यासी, हंसना, सम्राज्य, विमारी, प्रसंसा,

Question 5. पर्यायवाची :-

अग्नि, अंधकार, अहंकार, अवसर, अनुभव, अमृत