



Dear Children

The holidays have begun. It is time to have fun. It's the time for you to catch up with all that we have been longing to do, go for a long walk with your parents, enjoy the beautiful morning sunrise and evening sunset, admire the beauty of Nature, hear the chirping birds and see the fluttering butterflies.

It is time to catch up with Grandma's never ending stories and play wonderful games with Grandpa.

Studies are important for us to gain knowledge, and sports are important to keep us active, healthy and learn various personality traits such as leadership, team spirit, responsibility and many more. Keep yourself engaged during your summer break.

- Prepare yourself for the Periodic Test-1
- Prepare the practical files / project of Maths, Science and S.S.
- Bring all these assignments you do, make or collect, on July 06, 2018 (Friday).

Though we will miss you and your chatter and laughter definitely, we wish you a

HAPPY AND HAPPENING SUMMER VACATION !!!

Enjoy and take care of yourself !

With Love

Principal

Bhavna Mittal



SILVER OAK INTERNATIONAL SCHOOL, KAITHAL



HOLIDAYS' HOME WORK (SESSION: 2018 – 2019)

Dear Parents

The school will break up for summer vacation from May 31, 2018 to July 01, 2018 and reopen on July 2, 2018. It's a long time for the children to remain away from the school and if they completely forsake their books during the vacation, they are likely to struggle when they join back. The holidays therefore have to be a healthy mix of play and work. It is a wonderful time for self learning and therefore the work given should be done by the children with your occasional guidance.

As parents, kindly motivate and lend support to your children and ensure that they complete the given work well-in-time and do the best of their ability, your encouragement can actually make a huge difference to the ultimate learning outcome of these assignments.

Please note the following:-

- ☺ Keep at least half an hour a day for sharing experience with your child.
- ☺ Encourage your child to speak in English. Fix minimum one hour a day when you communicate with your child only in English.
- ☺ Restrict his/her television watching and playing with smart phones, confining it to interesting children's programs, Discovery Channel/National Geographic Channel etc.
- ☺ Develop self help skills let your child dress and feed on his/her own.
- ☺ Make him understand the importance of cleaning his/her room and putting away toys and belongings after use.
- ☺ Take your child out for picnics and to other places of his/her interest. Ask him/her to make a note of all the places he/she visits and the things he/she sees so that he/she is able to discuss his/her experience with his/her classmates after the vacation.

Have a nice time !!!

Principal
Bhavna Mittal



SILVER OAK INTERNATIONAL SCHOOL, KAITHAL

Class IX
Subject : English

Instruction: Complete the following Assignments in your BBC Compacta.

Reading	Module 1	Comprehensions	1 to 5
Writing	Module 3	Descriptive Paragraph	Page No 114 to 117, 124 to 126
	Module 4	Diary Entry	Page No 151 & 152
Grammar	Module 7	Editing , Omission and Rearrange	Complete
Oral	Prepare any two topics (General Awareness , social evils etc) for speaking skills assessment		
Project	Prepare a ppt or a chart on different types of poems		



Class -IX
Subject – Hindi
Assignment - 1

प्र 1 दिए गए उपसर्गों से दो-दो शब्दों का निर्माण कीजिए ।

ला	.....	.....
अधि	.....	.....
कु	.....	.....
अव	.....	.....
परि	.....	.....
डु	.....	.....
सु	.....	.....
स्व	.....	.....
वि	.....	.....
सह	.....	.....
चों	.....	.....
बद	.....	.....
उप	.....	.....
हम	.....	.....
बे	.....	.....

प्र 2 निम्न शब्दों से उपसर्ग व मूल शब्द अलग करके लिखे ।

प्रयत्न	.....	.....
स्वेच्छा	.....	.....

सज्जन	.....	.....
बाकायदा	.....	.....
निडर	.....	.....
अनजान	.....	.....
समकोण	.....	.....
उत्साह	.....	.....
दुर्दशा	.....	.....
ना समझ	.....	.....
संसाधन	.....	.....
प्रत्येक	.....	.....
अंतर्राष्ट्रीय	.....	.....
समकक्ष	.....	.....
अपशब्द	.....	.....
अत्यंत	.....	.....
आजीवन	.....	.....
संवेदना	.....	.....
दुराचार	.....	.....
उद्गम	.....	.....



Class -IX
Subject – Hindi
Assignment - 2

प्र 1 निम्न शब्दों से प्रत्यय व मूल शब्द अलग कीजिए ।

अंतर्राष्ट्रीय	.....	.....
साहित्यिक	.....	.....
बुद्धिमानी	.....	.....
आकुलता	.....	.....
दुकानदार	.....	.....
दवाइयों	.....	.....
अभिमाननी	.....	.....
सांकेतिक	.....	.....
दूधवाला	.....	.....
आधुनिकता	.....	.....
चमकीला	.....	.....
पुस्तकीय	.....	.....
भ्रमणशील	.....	.....
भारतीय	.....	.....
खट्टास	.....	.....

प्र 2 निम्न प्रत्यय शब्दों से दो-दो शब्द बनाओ।

आवट	.....	.....
गर	.....	.....
नी	.....	.....
नीय	.....	.....
अक	.....	.....
दार	.....	.....
मंद	.....	.....
बाज	.....	.....
इमा	.....	.....
वाला	.....	.....
ईला	.....	.....
इक	.....	.....
आर	.....	.....
आहार	.....	.....
मा	.....	.....
आ	.....	.....
ईप	.....	.....
इन	.....	.....
आज्ञा	.....	.....



SILVER OAK INTERNATIONAL SCHOOL, KAITHAL

Class -IX
Subject – Hindi
Assignment - 3

प्र 1 निम्न प्रश्नों के उत्तर दीजिए:-

- 1 दो बैलों की कथा के आधार पर स्पष्ट करें कि स्वतंत्रता सहज ही नहीं मिलती उसके लिए संघर्ष करना पड़ता है।
 - 2 कौंजी हौज किसे कहते हैं?
 - 3 छोटी बच्ची हीरा-मोती को रोटी क्यों खिलाती थी ?
 - 4 अपनी यात्रा के दौरान लेखक को किन कठिनाइयों का सामना करना पड़ा?
 - 5 लेखक के अनुसार उस काल में तिब्बत का समाज कैसा था ?
 - 6 पखापखी से कवि का क्या आशय है?
 - 7 कवि ने सच्चे प्रेमी की क्या कसौटी बताई है।
 - 8 कबीर का मोट चून मैदा भपा से क्या अभिप्राय है स्पष्ट करें ।
 - 9 कवयित्री के दिल में क्या हूक उठती है और क्यों?
 - 10 जल ही जीवन है लेकिन वह मृत्यु का तरल दूत कष और कैसे बन जाता है?
 - 11 नौजवान के पानी में उतरते ही कुत्ता भी पानी में कूद गया। दोनों ने ऐसा क्यों किया ?
-
- 12 बाढ़ जैसी प्राकृतिक आपदाओं के समय गैर सरकारी स्वयं सेवी संस्थाएं क्या-2 कार्य करती हैं ?
 - 13 खा-खाकर कुछ पाएगा नहीं पंक्ति द्वारा कवयित्री क्या स्पष्ट करना चाहती है?
 - 14 कवयित्री ललदपद के कौन-2 से प्रयास व्यर्थ हो गए ?
 - 15 यदि बैलों के पास वाणी होती तो उन्हें क्या लाभ होता ?
 - 16 गया के साथ जाते समय दोनों बैलों के मन में क्या था?
 - 17 इतना तो हो गया कि नौ-दस प्राणियों की जान बच गई। मोती के इस कथन के बारे में लिखें।
 - 18 लेखक ने शेकर विहार में सुमति को यजमानों के पास जाने से रोका, परंतु दूसरी बार रोकने का प्रयास क्यों नहीं किया ?
 - 19 तिब्बत में जाति प्रथा एवं स्त्रियों की स्थिति पर अपने विचार लिखें ।
 - 20 शेकर की खेती के मुखिया कौन थे ? वह कैसे थे ?



Silver Oak International School

Assignment 1 Class 9 (Maths)

Topic : Number System

Q1. Express each of the following decimals in the form $\frac{p}{q}$:-

- a) $0.35\bar{7}$ b) $2.02\bar{31}$ c) $0.57\bar{92}$ d) $15.7\bar{12}$

Q2. Rationalise the denominator :-

- a) $\frac{1}{\sqrt{7} + \sqrt{6} - \sqrt{13}}$ b) $\frac{4\sqrt{3} + 5\sqrt{2}}{\sqrt{48} + \sqrt{18}}$ c) $\frac{3\sqrt{2} + 1}{2\sqrt{5} - 3}$ d) $\frac{\sqrt{11}}{2\sqrt{13}}$

Q3. Find the values of a and b :-

a) $\frac{7 + 3\sqrt{5}}{3 + \sqrt{5}} - \frac{7 - 3\sqrt{5}}{3 - \sqrt{5}} = a + \sqrt{5} b$ b) $\frac{\sqrt{11} - \sqrt{7}}{\sqrt{11} + \sqrt{7}} = a - b\sqrt{77}$

c) $\frac{4 + \sqrt{2}}{2 + \sqrt{2}} = a - \sqrt{b}$

Q4. Find the value of :-

$$\left(\frac{x^a}{x^b}\right)^{a+b} \cdot \left(\frac{x^b}{x^c}\right)^{b+c} \cdot \left(\frac{x^c}{x^a}\right)^{c+a}$$

Q5. Find the values of x in each of the following :-

a) $2^{x-5} \times 5^{x-4} = 5$ b) $5^{x-2} \times 3^{2x-3} = 135$

c) $3^{2x+5} = 3^{2x+3} + 72$

Q6. If $a = 3$, $b = 5$, then find the values of each of the following:-

a) $a^a + b^b$ b) $(ab)^{a-b}$ c) $\left(\frac{1}{a} + \frac{1}{b}\right)^a$

Q7. Represent $\sqrt{9.4}$ and $\sqrt{10.5}$ on the number line .

Q8. Find the value of $\frac{6}{\sqrt{5} - \sqrt{3}}$, given that $\sqrt{3} = 1.732$, $\sqrt{5} = 2.236$.

Q9. If $x = 2 + \sqrt{3}$, find the value of $x^3 + \frac{1}{x^3}$.

Q10. If $x = \frac{1}{2 - \sqrt{3}}$, find the value of $x^3 - 2x^2 - 7x + 5$.

Q11. Prove that :

$$\frac{1}{3-\sqrt{8}} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-2} = 5$$

Q12. If $(x-1)^3 = 8$, what is the value of $(x+1)^2$?

Q13. Prove that :-

$$\text{a) } \frac{2^n + 2^{n-1}}{2^{n+1} - 2^n} = \frac{3}{2}$$

$$\text{b) } 9^{3/2} - 3 \times 5^0 - (1/81)^{-1/2} = 15$$

Q14. Represent $\sqrt{6}$, $\sqrt{7}$, $\sqrt{8}$ on the number line .

Q15. Find three rational numbers between -2 and 5 .

Q16. Express the following rational numbers as decimals :-

$$\text{a) } \frac{-22}{13} \quad \text{b) } \frac{327}{500} \quad \text{c) } 4\frac{1}{8}$$

Q17. Simplify :-

$$\text{a) } \frac{(25)^{3/2} \times (243)^{3/5}}{(16)^{5/4} \times (8)^{4/3}} \quad \text{b) } \frac{(2)^{1/2} \times (3)^{1/3} \times (4)^{1/4}}{(10)^{-1/5} \times (5)^{3/5}} \div \frac{(3)^{4/3} \times (5)^{-7/5}}{(4)^{-3/5} \times (6)}$$

Answers :-

$$1. \text{ a) } \frac{161}{450} \quad \text{b) } \frac{20029}{9900} \quad \text{c) } \frac{1147}{1980} \quad \text{c) } \frac{5185}{330} \quad 2. \text{ a) } \frac{7\sqrt{6} + 6\sqrt{7} + \sqrt{546}}{84}$$

$$\text{b) } \frac{9+4\sqrt{6}}{15} \quad \text{c) } \frac{6\sqrt{10} + 9\sqrt{2} + 2\sqrt{5} + 3}{11} \quad \text{d) } \frac{\sqrt{143}}{26} \quad 3. \text{ a) } a=0, b=2$$

$$\text{b) } a = \frac{9}{2}, b = \frac{1}{2} \quad \text{c) } a=3, b=2 \quad 4. 1 \quad 5. \text{ a) } 5 \quad \text{b) } 3 \quad \text{c) } \frac{-1}{2}$$

$$6. \text{ a) } 3152 \quad \text{b) } \frac{1}{225} \quad \text{c) } \frac{512}{3375} \quad 8. 11.904 \quad 9. 52 \quad 10. 3$$

$$12. 16 \quad 15. \frac{-1}{4}, \frac{3}{2}, \frac{13}{4} \quad 16. \text{ a) } -1.\overline{692307} \quad \text{b) } 0.654 \quad \text{c) } 4.125$$

$$17. \text{ a) } \frac{3375}{512} \quad \text{b) } 10$$



Silver Oak International School

Assignment 2

Class 9 (Maths)

Topic : Polynomials

Q1. Write the expanded form:-

a) $(2 + x - 2y)^2$

b) $(\sqrt{2x} - 3y)^2$

Q2. If $\frac{x+1}{x} = 5$, find the value of $x^3 + \frac{1}{x^3}$.

Q3. If $a + b + c = 9$ and $ab + bc + ca = 23$, find the value of $a^2 + b^2 + c^2$.

Q4. Evaluate each of the following:-

a) $(9.9)^3$

b) $(10.4)^3$

c) $(99)^3$

Q5. Without actually calculating the cubes, find the value of each of the following:-

a) $30^3 + 20^3 - 50^3$

b) $1.5^3 - 0.9^3 - 0.6^3$

Q6. If $x + y + z = 1$, $xy + yz + zx = -1$ and $xyz = -1$, find the value of $x^3 + y^3 + z^3$.

Q7. If $a + b + c = 0$, find the value of $\frac{a^2}{bc} + \frac{b^2}{ca} + \frac{c^2}{ab}$.

Q8. Simplify :-

a) $(a + b + c)^2 + (a - b - c)^2$

b) $(x^2 + y^2 - z^2)^2 - (x^2 - y^2 + z^2)^2$

c) $(x^2 - x + 1)^2 - (x^2 + x + 1)^2$

Q9. If $x - y = 4$ and $xy = 21$, find the value of $x^3 - y^3$.

Q10. Show that $(x+4)$, $(x-3)$ and $(x-7)$ are the factors of $x^3 - 6x^2 - 19x + 84$.

Q11. Factorize :-

a) $3x^3 + 7x^2 - 22x - 8$

b) $x^3 + 2x^2 - 13x + 10$

c) $x^9 - y^9$

d) $1029 - 3x^3$

e) $(x + 2)^3 + (x - 2)^3$

f) $1 - 27a^3$

g) $125x^3 - 27y^3 - 225x^2y + 135xy^2$ h) $(x - y)^3 + (y - z)^3 + (z - x)^3$

Q12. If $p = 2 - a$, prove that $a^3 + 6ap + p^3 - 8 = 0$.

Q13. Find the value of $x^3 - 8y^3 - 36xy - 216$, when $x = 2y + 6$.

Q14. Prove that

$$\frac{0.87 \times 0.87 \times 0.87 + 0.13 \times 0.13 \times 0.13}{0.87 \times 0.87 - 0.87 \times 0.13 + 0.13 \times 0.13} = 1$$

Q15. If $x^2 + \frac{1}{x^2} = 27$, find the values of each of the following :-

a) $x + \frac{1}{x}$ b) $x - \frac{1}{x}$

Q16. If $4x^2 + y^2 = 40$ and $xy = 6$, find the value of $2x + y$.

Q17. If $x + \frac{1}{x} = \sqrt{5}$, find the value of $x^2 + \frac{1}{x^2}$ and $x^4 + \frac{1}{x^4}$.

Q18. Simplify :-

a) $175 \times 175 + 2 \times 175 \times 25 + 25 \times 25$ b) $\frac{7.83 \times 7.83 - 1.17 \times 1.17}{6.66}$

Q19. Find the value of $4x^2 + y^2 + 25z^2 + 4xy - 10yz - 20zx$ when $x = 4$, $y = 3$ and $z = 2$.

Q20. If $x^4 + \frac{1}{x^4} = 119$, find the value of $x^3 - \frac{1}{x^3}$.

Q21. If $x = 2$ and $x = 0$ are roots of the polynomial $f(x) = 2x^3 - 5x^2 + ax + b$. Find the values of a and b .

Q22. Find the remainder when $f(x)$ is divided by $g(x)$:-

a) $f(x) = x^4 - 3x^2 + 4$, $g(x) = x - 2$

b) $f(x) = 2x^4 - 6x^3 + 2x^2 - x + 2$, $g(x) = x - 2$

Q23. Show that $(x + 4)$, $(x - 3)$ and $(x - 7)$ are factors of $x^3 - 3x^2 - 10x + 24$.

Q24. Find the value of a if $x - 1$ is a factor of $3x^4 - 4x^3 - ax + 2$.

Q25. Factorize $9z^3 - 27z^2 - 100z + 300$, if it is given that $(3z + 10)$ is a factor of it.

Q26. If $x = \frac{1}{2}$ is a zero of the polynomial $f(x) = 8x^3 + ax^2 - 4x + 2$, find the value of a .

Q27. The polynomials $ax^3 + 3x^2 - 13$ and $2x^3 - 5x + a$ are divided by $x + 2$. If the remainder in each case is same, find the value of a .

Q28. Check whether polynomial $g(x)$ is a factor of polynomial $f(x)$ or not :-

a) $f(x) = x^3 - 6x^2 + 11x - 6$; $g(x) = x - 3$

b) $f(x) = x^5 + 3x^4 - x^3 - 3x^2 + 5x + 15$; $g(x) = x + 3$

c) $f(x) = x^3 - 6x^2 + 11x - 6$; $g(x) = x^2 - 3x + 2$

Q29. Use factor theorem to verify that $x - 5$ is a factor of $x^3 - 6x^2 + 3x + 10$.

Q30. If $f(x) = 2x^3 - 13x^2 + 17x + 12$, find

a) $f(2)$

b) $f(-3)$

Answers :-

1. a) $x^2 + 4y^2 + 4 + 4x - 4xy - 8y$ b) $2x^2 - 6\sqrt{2}xy + 9y^2$ 2. 110 3. 35

4. a) 970.299 b) 1124.864 c) 970299 5. a) -90000 b) 2.430

6. 1 7. 3 8. a) $2(a^2 + b^2 + c^2 + 2bc)$ b) $4x^2(y^2 - z^2)$ c) $-4x(x^2 + 1)$

9. 316 11. a) $(x-2)(x+4)(3x+1)$ b) $(x-2)(x-1)(x+5)$

c) $(x-y)(x^2 + xy + y^2)(x^6 + x^3y^3 + y^6)$ d) $3(7-x)(49 + 7x + x^2)$ e) $2x(x^2 + 12)$

f) $(1-3a)(1 + 3a + 9a^2)$ g) $(5x - 3y)(5x - 3y)(5x - 3y)$ h) $3(x-y)(y-z)(z-x)$

13. 0 15. a) $\pm\sqrt{29}$ b) ± 5 16. ± 8 17. 3, 7 18. a) 40000

b) 9711 19. 1 20. 36 21. $a = 2, b = 0$ 22. a) 8 b) 92

24. $a = 1$ 25. $(3z + 10)(3z - 10)(z - 3)$ 26. -4 27. $\frac{5}{9}$

28. a) Yes b) Yes c) Yes 30. a) 10 b) -210



Silver Oak International School

Assignment 3

Class 9 (Maths)

Topic : Coordinate Geometry

Q1. Plot the following points on a graph paper :-

- i) (2, 5) ii) (-3, -8) iii) (-6, 7) iv) (1, -5)
v) (-3, -3) vi) (-5, 0) vii) (1, 0) viii) (-4, -6)

Q2. State in which quadrant do the following points lie :-

- i) (-7, 9) ii) (6, 3) iii) (7, -9) iv) (-5, -3)
v) (5, 6) vii) (9, -7)

Q3. Draw a parallelogram ABCD whose vertices A, B, C and D are (-4, 8), (-4, 2), (6, -5) and (6, 1) respectively .

Q4. Plot the points (x, y) given by the following table on the graph paper :-

x	2	-5	-2	-3	0	0	8	1	-3
y	4	0	-7	-5	-3	0	9	-1	0

Q5. Draw a trapezium ABCD in which vertices A, B, C and D are (4, 6), (-2, 3), (-2, -5) and (4, -7) respectively .

Q6. Plot the following points and write the name of the figure thus obtained :-

$$A(-3, 2), \quad B(-7, -3), \quad C(6, -3), \quad D(2, 2)$$

Q7. Three vertices of a rectangle are (3, 2), (3, 5) and (-4, 5) . Plot these points and find the coordinates of fourth vertex .

Q8. Plot the points (x, y) given by the following table on the graph paper :-

X	1.25	1.25	0	1.75	2	-1.5
Y	0	-1.5	1.5	-1.75	1.5	2

Q9. Plot the points A (1, -1) and B (4, 5) then draw a line segment joining these points .



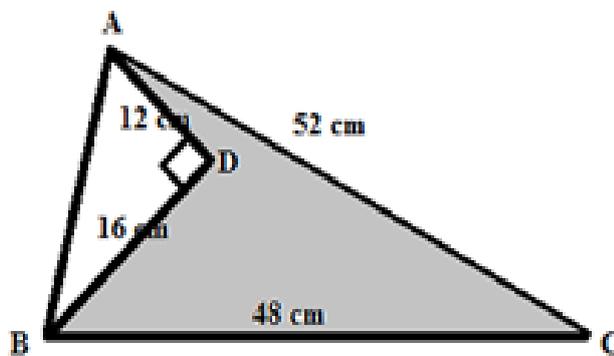
Silver Oak International School

Assignment 4

Class 9 (Maths)

Topic : Heron's Formula

- Q1. The perimeter of a triangular field is 144 cm and the ratio of the sides is 3 : 4 : 5 .
Find the area of the field .
- Q2. The sides of a triangle are 50 cm , 78 cm and 112 cm . Find the length of the smallest altitude .
- Q3. Find the area of a rhombus whose perimeter is 80 m and one of whose diagonals is 24 m .
- Q4. Find the area of a trapezium whose parallel sides are 25 cm , 13 cm and the other sides are 15 cm and 15 cm .
- Q5. Find the area of the shaded region in the following figure :-



- Q6. Find the area of the quadrilateral ABCD , in which $AB = 7$ cm , $BC = 6$ cm ,
 $CD = 12$ cm , $DA = 15$ cm and $AC = 9$ cm .
- Q7. If each side of a triangle is doubled , then find the percentage increase in its area .
- Q8. A square and an equilateral triangle have equal perimeters . If the diagonal of the square is $12\sqrt{2}$ cm , then find the area of the triangle .
- Q9. The base of an isosceles right triangle is 30 cm . Find its area .

- Q10 . A triangle and a parallelogram have the same base and the same area .If the sides of the triangle are 13 cm , 14 cm and 15 cm and the parallelogram stands on the base 14 cm , find the height of the parallelogram .
- Q11. Find the area of an equilateral triangle having altitude h cm .
- Q12. The sides of a quadrilateral taken in order are 5 , 12 , 14 and 15 metres respectively and the angle contained by the first two sides is a right angle . Find its area .
- Q 13. Find the perimeter and the area of the quadrilateral ABCD in which $AB = 17$ cm , $AD = 9$ cm , $CD = 12$ cm , $\angle ACB = 90^\circ$ and $AC = 15$ cm .
- Q14. The lengths of the sides of a triangle are 5cm , 12 cm and 13 cm . Find the length of perpendicular from the opposite vertex to the side whose length is 13 cm .
- Q15 . If the side of a rhombus is 10 cm and one diagonal is 16 cm , then find the area of the rhombus .
- Q16. Find the cost of laying grass in a triangular field of sides 50 m , 65 m and 65 m at the rate of ₹ 7 per m^2 .

Answers :-

1. 864 cm^2 2. 30 cm 3. 384 m^2 4. $57\sqrt{21} \text{ cm}^2$ 5. 384 cm^2
6. 74.98 cm^2 7. 300 % 8. $64\sqrt{3} \text{ cm}^2$ 9. 225 cm^2 10 . 6 cm
11. $h^2/\sqrt{3} \text{ cm}^2$ 12. 114 m^2 13. 46 cm , 114 cm^2 14. $\frac{60}{13} \text{ cm}$
15. 96 cm^2 16. ₹ 10500

SILVER OAK INTERNATIONAL SCHOOL

Session – 2018-2019

Class – 9th (Science)

Assignment

Q 1. What are the characteristics of particles of matter ?

Q 2.(a) Tabulate the differences in the characteristics of states of matter.

(b) comment upon the following: Rigidity, Compressibility, Fluidity

Q 3. Why solid CO₂ is known as dry ice ? what are the applications of dry ice ?

Q 4. The melting points of three solids X, Y, Z are 298 K , 314 K and 398 K respectively. Arrange these in the increasing order of their inter particle force of attraction.

Q5. Among solids, liquids, gases , which one has

(a) Maximum force of attraction between particles.

(b) Minimum space in between particles.

Q 6. Why it is advised to put wet cloth strips on the forehead of a person suffering from high fever?

Q 7. What is tincture of iodine ? Identify the solute and solvent in it.

Q8. Define the term sublimation. Write the names of any two substances which sublime.

Q 9. Arrange the three states of matter in the increasing order of :

(a) Rate of diffusion

(b) Particle motion

Q 10. People sprinkle water on open ground or roof on a hot sunny day. Why?

Q 11. Why is ice at 273 K more effective in cooling than water at the same temperature.

Q 12. What produces more severe burns, boiling water or steam ?

Q 13 Give reason :

(a) Naphthalene balls disappear with time without leaving any solid.

(b) Suggest a method to liquefy gases.

Q 14.(a) How does water kept in an earthen pot become cool during summers?

(b) What type of clothes should we wear in summers?

Q 15. (a) A gas exerts pressure on the walls of container. Explain ?

(b) Why ice floats on water ?

Q 16. Define the terms :

(a) Latent heat of fusion (b) Latent heat of vapourisation (c) Melting point

Q 17. (a) Define diffusion. Explain the rate of order of diffusion in solids, liquids, gases.

(b) State the effect of temperature on diffusion.

Q 18. Define Evaporation. list the factors on which the rate of evaporation depends and explain how it depends on each of them.

Q 19. State the differences between evaporation and boiling.

Q 19. Why does the temperature of substance remain constant during its melting and boiling point ?

Q 20. Why do we see water droplets on the outer surface of a glass containing ice cold water ?

Q 21. Differentiate between homogeneous and heterogeneous mixtures with examples.

Q 22. How are solution, colloidal solution and suspension are different from each other on the basis of their properties ?

Q 23. Define the terms :

(a) Saturated solution (b) Pure substance

Q 24. Give an example of (a) Gas in liquid solution (b) Gas in gas solution. (c) solid in solid solution.

Q 25. What is tyndall effect? How it can be observed in the canopy of dense forest ?

Q 26. Explain centrifugation? Give any of its two applications ?

Q 27. How can we separate a mixture of two miscible liquids ?

Q 28. (a) What is meant by fractionating column ?

(b) What is the principle of chromatography ? Write any two applications of chromatography ? Also write a condition necessary for chromatography .

Q 29.(a) What is the principal of crystallisation?

(b)What do you understand by aerosol ?

Q 30. What is solubility ? How does solubility of a solid in water change with temperature ?

Q 31. Differentiate between an element and a compound ? write one example .

Q 32. Write three differences between physical and chemical changes .

Q 33. How can we separate different gases from air ? explain the process with diagram.

Q 34. Show diagrammatically how water purification takes place and list the processes involved.

Q 35.(a) Why is the cell called structural and functional unit of life?

(b) Differentiate between plasma membrane and cell wall .

Q 36. Define the terms :

(a) Protoplasm (b) cytoplasm (c) cell organelle (d) Osmosis

Q 37. Differentiate between hypotonic , isotonic , hypertonic solutions .

Q 38. Make a comparison and write down the ways in which plant cell and animal cells are different from each other.

Q 39. Why are lysosomes called suicide bags ?

(b) How does an amoeba obtain its food ?

Q 40.(a) State the function of chromosomes in the cell.

(b) why is the nucleus called director of the cell?

Q 41. Give one word answer to the following :

- (a) Organelle containing chlorophyll.
- (b) Living matter of the cell
- (c) Cell without membrane bound nucleus .
- (d) An organelle with cristae.

Q 42. Describe the structure of mitochondrion with special reference to the membrane covering .

Q 43. Differentiate between nucleus and nucleoid .

Q 44. What are the different types of endoplasmic reticulum ? write the functions of each .

Q 45.(a) What is DNA ? Explain its functions.

(b) What is the structure and function of golgi body ?

Q46. Give the differences between leucoplasts and chromoplasts .

Q 47. Draw a well labelled diagram of prokaryotic cell .

Q 48. Differentiate between diffusion and osmosis .

Q 49. Give differences between prokaryotic and eukaryotic cells?

Q 50. Name :

- (a) An organelle which has its own genetic material .
- (b) An organelle rich in digestive enzymes.
- (c) Nucleic acid present in nucleus of the cell .

Q 51. Why is mitochondrion called Power house of the cell? Give three similarities and one difference between mitochondrion and plastids .

Q 52. In brief state what happens when :

(a) Dry apricots are left for sometimes in pure water and later transferred to sugar solution .

(b) Golgi apparatus is removed from the body ?

(c) The plasma membrane of a cell breaks down ?

Q 53. Name the cell organelle in which the following structures are present :

(a) Stroma (b) Ribosomes (c) Chromosomes

Q 54. Draw neat and clean diagram of plant cell as well as animal cell .

Q 55. Write down the differences between distance and displacement .

Q 56. Differentiate between uniform and non uniform motion with example.

Q 57. Write the differences between speed and velocity.

Q 58. A body can have zero average velocity but not zero average speed. Justify it

Q 59. Give one example of each of the following :

(a) Acceleration is against the direction of motion .

(b) Acceleration is non uniform.

Q 60. Distinguish between uniform acceleration and non uniform acceleration .

Q 61. Draw distance time graph for uniform motion and non uniform motion. Also draw velocity time graph for uniform acceleration.

Q 62. Derive graphically the three equations of motion.

Q 63. What do you mean by uniform circular motion. Give example.

Q 64. An object moves on a circular path of radius r . what will be the distance and displacement when it completes half revolutions.

Q 65. Do the numerical practice of chapter **MOTION** from NCERT book . Also practice the assignment numericals of this chapter for **PT- 1 Exams**.



SILVER OAK INTERNATIONAL SCHOOL, KAITHAL

Class – 9

Subject – S.S.

Assignment – 1

History (L-1)

Answer the following questions in brief:

- Q1 When was Napoleon defeated?
- Q2 Who wrote 'The spirit of the laws'?
- Q3 What was the slogan of the French revolutionaries?
- Q4 Define Tithes and Tailles.
- Q5 When did the French Revolution occur?
- Q6 Name two women clubs of France?
- Q7 Who abolished slavery in France?
- Q8 In which year women of France won the right to vote?
- Q9 Name three divisions of the French society.
- Q10 Who was the leader of the Jacobin Club?

Answer the following questions in detail:

- Q11 What were the main reasons of the French Revolution?
- Q12 Explain the main features of the French Constitution (1791).
- Q13 How was the French society organised?
- Q14 Why were women disappointed by the Constitution of 1791 in France?
- Q15 What do you know about the triangular slave trade?
- Q16 How did France become a Republic?
- Q17 Write a short note on the Directory.
- Q18 Which period in the French history is known as the "Reign of Terror"? Why?

Assignment – 2

Geography (L-1)

Answer the following questions in brief:

- Q1 Name any three Indian states through which tropic of Cancer passes.
- Q2 Name two routes by which India is connected with Europe, N. America & S. America.

- Q3 What is the longitude and latitude extent of India?
- Q4 List the countries larger than India in size.
- Q5 What is the total landmass area of India?
- Q6 What is the north-south and the east-west distance of India.
- Q7 What do you mean by peninsula?
- Q8 Name the Indian states that share borders with Pakistan.

Answer the following question in detail:

- Q9 Why do we need a standard meridian for India?
- Q10 Write a note on India's relation with the ancient world.
- Q11 Why is the difference between the duration of day and night hardly felt at Kanyakumari but not so in Kashmir?
- Q12 Why does the sun rise two hours earlier in Arunachal Pradesh as compared to Gujarat?
- Q13 How is India's geographical location favourably important for the international trade?
- Q14 Write a note on the size & location of India.

Assignment – 3
Political Science (L-1)

Answer the following questions in brief:

- Q1 Discuss the major features of democracy.
- Q2 Why Zimbabwe, China and Mexico cannot be called democratic countries? Give reasons.
- Q3 Democracy improves the quality of decision making. Analyze the statement.
- Q4 Explain the major arguments against democracy.

Answer the following question in detail:

- Q5 Name two countries where free & fair elections are not held.
- Q6 Name a country where women do not have right to vote.
- Q7 Define Dictatorship.
- Q8 When did Parvez Musharraf become the President of Pakistan?
- Q9 By whom is the President of China appointed?
- Q10 Define referendum.
- Q11 Who issued Legal Framework Order?

Q12 Why Fizi cannot be called a democratic country?

Assignment – 4
Economics (L-1)

Answer the following questions in brief:

Q1 Define production.

Q2 What do you mean by HYV?

Q3 What was the benefit of electricity in Palampur?

Q4 Define yield.

Q5 Name the kharif and rabi crops grown in Palampur.

Answer the following question in detail:

Q6 What is the importance of Green Revolution for India?

Q7 Explain the four factors of production.

Q8 What are the different ways of increasing production on the same piece of land?

Q9 Explain the land distribution of village Palampur.

Q10 Discuss the non farming activities of Palampur.

Q11 How do farmers arrange capital?

Q12 What can be done to increase the infrastructure / non-farming activities in rural India?