

# St. Vivekanand Lotus Valley Public School

Sec-18 Huda, Jagadhri

Dear Parent  
Greetings!!

As schools are shut across the country, every house is a school and every parent is a teacher. So parents have an important role to play during Covid-19 pandemic.

Some suggestions to substitute children's screen time with-

- 1) Now is the time to get your kids interested in some books. Read with them and strike up a conversation with them.
- 2) Turn to nature and get them involved in gardening. Let children get creative with take away boxes and empty bottles.
- 3) Turn them into little chefs. Involve them in menu planning, get them to do some tasks.

So spend these holidays (from 11<sup>th</sup> June, 2020 to 19<sup>th</sup> June, 2020) creating a nurturing and stimulating environment filled with fun and frolic.

## ***Guidelines for completing assignments 1 and 2***

- a) Please complete the assignment tasks in your subject notebook with proper date and heading.
- b) Prepare a pdf and submit on the date specified.
- c) Revise all the work done till date.

## **HOLIDAYS HOMEWORK (JUNE 2020-21)**

### **CLASS-IX**

#### English

- ❖ Section A– Comprehension passage
- ❖ Section B–
- ❖ Diary Entry
- ❖ gap filling
- ❖ error detection
- ❖ Section C–
- ❖ Bee Hive : Ch-1, 2, 3
- ❖ Poem:1, 2, 3

Moments :Ch-1, 2, 3

- ❖ Revise the syllabus
- ❖ Solve the assignments as uploaded

## Hindi

1. स्पर्श - भाग-क पाठ -2 ,3 ,4 दोहराई के लिए  
गद्य भाग पाठ- 1,6,7 पठन के लिए  
काव्ये खंड कविता 1,2,6 दोहराई के लिए  
कविता 3,4 पठन के लिए  
संचयन भाग -1 पाठ 1,2 दोहराई के लिए  
पाठ 5, 6 पठन के लिए
2. लेखन संवाद लेखन दोहराई के लिए  
अनुच्छेद लेखन कोई भी पांच अपनी व्याकरण की पुस्तिका में लिखे
3. भाषण वाचन गतिविधि (वाचन कौशल ) 2 से 3 मिनट
  1. दिशाहिन भारतीय युवा पीढ़ी (रोल नंबर 1,6,11,16,21,26)
  2. मिली जुली भारतीय संस्कृति (रोल नंबर 2,7,12,17,22,27)
  3. भारतीय कामकाजी महिलाओं की समस्याएं (रोल नंबर 3,8,13,18,23,28)
  4. विज्ञान के क्षेत्र में भारत के बढ़ते कदम (रोल नंबर 4,9,14,19,24,29)
  5. प्राकृति की रक्षा मानव की सुरक्षा (रोल नंबर 5,10,15,20,25,30)

नोट - उपरोक्त विषयों में से अपने अनुक्रमांक के अनुसार विषय लेकर स्पष्ट भाव भंगिमाओं सहित भाषण का वीडियो बनाकर विषय के अध्यापक /अध्यापिका को भेजे।

## Maths

- ❖ Chapter 1- real numbers
- ❖ Chapter 2- polynomials
- ❖ Chapter 3- co-ordinate Geometry
- ❖ Chapter 4- Linear Equations in two Variables
- ❖ Chapter 5- Euclid Geometry
- ❖ Chapter 6- Lines and Angles
- ❖ Revise all the syllabus done in the class
- ❖ Do assignments

## Science -

### Physics, Chemistry, Biology

1. Complete Assignment 1 and 2 as per schedule.
2. Revise syllabus done till date.
3. Write Laboratory instructions on first page of file.
4. Complete the following experiments in your practical file :

### **Experiment 1:**

Preparation of:

- a. A true solution of sugar, common salt and alum.
- b. A suspension of chalk powder, soil and fine sand in water.
- c. A colloidal of starch in water and egg albumin in water to differentiate them on the basis of:
  1. Transparency
  2. Filtration criterion
  3. Stability

### **Experiment 2:**

Preparation of

- a. Mixture
- b. Compound, using iron fillings and sulphur powder and distinguish between these on the basis of:
  1. Appearance i.e homogeneity and heterogeneity
  2. Behavior towards magnet
  3. Behavior towards carbon disulphide
  4. Effect of heat

### **Experiment 5:**

Preparation of stained temporary mount of (a) onion peel, record observations and draw their labeled diagram.

### **Experiment 6:**

To identify Parenchyma, collenchymas and sclerenchyma tissues in plants, striped smooth muscle fibers and cardiac in from prepared slides. Draw the labeled diagrams.

### **Experiment 9:**

Determination of the density of a solid (denser than water) by using spring balance and measuring cylinder.

### **Experiment 10:**

To establishing the relation between the loss in weight of a solid when fully immersed in:

- a. Tap water
- b. Strongly salty water, with weight of water displaced by it, by taking at Bart two different solids.

## **Social science**

- History:- Lesson 1- French Revolution
- political science
- Lesson 1- What is democracy? Why democracy?
- Lesson 2- Constitutional Design

- Lesson 3- Electoral Politics
- Geography
- Lesson 1-India Size and Locations
- Lesson 2-Physical features of India
- Lesson 3- Drainage
- Revise all the syllabus done in the class
- Do assignments

**Make a project Report on Disaster Management**



**ST. VIVEKANAND LOTUS VALLEY PUBLIC SCHOOL**  
**Class-IX**  
**English**

**Assignment-1**

**A. Fill in the blanks with appropriate modals:-**

1. Ram (a)\_\_\_\_\_keep his word as he (b)\_\_\_\_\_ has to repay all his loan. He (c)\_\_\_\_\_ be seventeen next week. I am certain that you (d)\_\_\_\_\_see that how successfully he has accomplished his mission. (e)\_\_\_\_\_ he live long! You (f) \_\_\_\_\_ not worry. Your money is safe.
2. A person with a fragile ego (a)\_\_\_\_\_ take anything you say personally. Then not only (b)\_\_\_\_\_ a hard time ahead, but (c)\_\_\_\_\_ also feel insulted. They (d)\_\_\_\_\_ get hurt and in return they (e)\_\_\_\_\_ injure others. They are called sadists who (f)\_\_\_\_\_ certainly mar others' reputation.
3. In India, the death toll due to the road accidents(a)\_\_\_\_\_ increased drastically. Most of them (b)\_\_\_\_\_ have been averted. Wider road awareness among Road users (c)\_\_\_\_\_ be taught. Separate lanes for heavy vehicles (d)\_\_\_\_\_ be made. More stringent laws (e)\_\_\_\_\_ be enforced while issuing licences. If we do not follow this, the degrading society like ours (f)\_\_\_\_\_ fail the next day.

**B. Fill up the blanks by using the correct tense form of the verbs given in**

**brackets:-**

1. Last week I(a) \_\_\_\_\_ (visit) the trade fair. It (b) \_\_\_\_\_ (inaugurate) by the President of India. I (c) \_\_\_\_\_ (accompany) by my friend who (d) \_\_\_\_\_ (come) from the USA last week. He (e) \_\_\_\_\_ (live) in the USA since last 5 years. He (f) \_\_\_\_\_ (do) his MBA from the New York University.
2. Kate Middleton may bracket (a) \_\_\_\_\_ (be) looked dainty and Fairy like in her wedding gown but (b)\_\_\_\_\_ (talk) doing the rounds (c) \_\_\_\_\_ (be) that the dress bore a striking similarity with Grace Kelly's wedding outfit. Royal wedding fans couldn't (d) \_\_\_\_\_ (help) noticing that both the brides (e) \_\_\_\_\_ (wear) dramatic gowns with similar V shaped necklines and long white lace sleeves at their respective weddings, (f) \_\_\_\_\_ (report) the New York daily.

**ST. VIVEKANAND LOTUS VALLEY PUBLIC SCHOOL**  
**Class-IX**  
**English**

**Assignment-2**

**THE SOUND OF MUSIC**

As for music, she explains, "It pours in through every part of my body. It tingles in my skin, my cheekbones and even in my hair."

- a. Who is the speaker of the above lines?
- b. How does she 'hear' music?
- c. 'She become able to sense different notes of music.' Explain how she is able to do so.
- d. What award did she receive for her accomplishments?

**THE LITTLE GIRL**

That night there was a Hue and cry in the house. Father's great speech for the port authority had been lost. Rooms were searched; servants questioned. Finally, mother came into Kezia's room.

- a) Why were the rooms being searched?
- b) What had Kezia done with the speech?
- c) Did Kezia receive punishment for her act? How was she punished?
- d) How did Kezia decide that there were different kinds of fathers?

# THE ADVENTURE OF TOTO

To his surprise he found in Nana, without apparent cause, pulling at her halter and trying to keep her head as far as possible from a bundle of hay.

- a) Who is referred to as 'Nana' in the above extract?
- b) Why was she 'pulling' at her Halter?
- c) Which word in the extract is a synonym of 'evident'?
- d) Do you think that the above extract refers to an incident regarding Toto?

## ISWARAN-THE STORYTELLER

"The road was deserted and I was all alone. Suddenly I spotted something that looked like an enormous bushy beast lying sprawled across the road."

- a) Who is speaking the words in the above extract?
- b) What was the 'enormous bushy beast' actually?
- c) What is happening in the above extract?
- d) Which word in the extract is an antonym of 'populous'?

## SPEAKING ACTIVITY-

- I. TV is real life [Roll no. -1,6,11,16,21,26 ]
- II. Driving by minors [Roll no. -2,7,12,17,22,27]
- III. Fashion and teenagers [Roll no. -3,8,13,18,23,28 ]
- IV. Advertisements mislead consumers [Roll no. -4,9,14,19,24,29]
- V. Child labour [Roll no. -5,10,15,20,25,30 ]

**Prepare the Topic According to Your Roll. No.**

ASSIGNMENT-1

निम्नलिखित प्रश्नों के उत्तर 25 से 30 शब्दों में लिखिए।

1. लेखक ने खरबूजे बेचने वाली बुढ़िया की तुलना किससे की है?
2. लोग खरबूजे खरीदने के लिए आगे क्यों नहीं बढ़ रहे थे ?
3. बुध पूर्णिमा के दिन बचेंद्री पाल के साथ कौन सी दुर्घटना घटी?
4. एवेरेस्ट की चोटी पर पहुंच कर लेखिका ने क्या किया ?
5. लेखक ने किन सकेतों से जताना चाहा कि वह अतिथि से ऊब चुका है ?
6. 'तुम कब जाओगे ,अतिथि '? शीर्षक की विशेषताएं बताइये।
7. 'कवि को किस बात की रट लगी है और कौन सी बात छूट नहीं रही है?अब कैसे छूटे.....पद के आधार पर बताइये
8. 'तुम चन्दन हम पानी ' कहकर कवि क्या कहना चाहता है?
9. कवि अपने मन की व्यथा को मन में ही छिपाये रखने की सलाह क्यों दी है?
10. रहीम जी के अनुसार जीवन की सार्थकता किसमें है ?
11. कवि मनुष्य को कौन सी शपथ लेने की प्रेरणा दे रहा है ?(अग्निपथ)
12. महादेवी वर्मा को गिल्लू किस स्तिथि में मिला था ?
13. गिल्लू को सोनजुही के नीचे ही समाधी क्यों दी गई?
14. 'स्मृति' पाठ के लेखन की दुविधा क्या थी ? वह कैसे ठीक हुई?
15. चिट्ठियां कुएँ में गिरने पर दोनों भाईयों की क्या हालत हुई ?

निम्नलिखित प्रश्नों के उत्तर 50 से 60 शब्दों में लिखिए ।

1. 'दुख का अधिकार ' कहानी के आधार पर बुढ़िया माँ की चारित्रिक विशेषताएं बताएं
2. पाठ के आधार पर बचेंद्री पाल के व्यक्तित्व व चरित्र की विशेषताओं का उल्लेख कीजिये।
3. आतिथ्य का चौथा दिन लेखक को कैसा प्रतीत हो रहा है ?
4. बादल का मोर के साथ और चन्द्रमा का चकोर के साथ क्या संबंध है ?
5. 'धागे को चटकाकर तोड़ने ' और गांठ पड़ने ' से क्या आशय है ? कवि प्रेम का धागे को तोड़ने से मना क्यों करता है ?
6. कवि 'हरिवंश राय बच्चन ' ने जीवन के किस दृश्य को महान कहा है ?(अग्निपथ)
7. कैसे कहा जा सकता है कि गिल्लू की गतिविधियां समझदारी से भरी हुई थी?
8. गिल्लू पाठ का सन्देश क्या है?
9. " जब जीवन होता है तब बचने के हजारों ढंग निकल आते है " स्मृति पाठ के आधार पर स्पष्ट करो।

St. Vivekanand Lotus Valley Public School

Class-IX

Subject-Hindi

ASSIGNMENT-2

1. निम्नलिखित प्रश्नों के उत्तर 40 से 50 शब्दों में लिखिए।

1. ग्रीष्मावकाश में घूमने का कार्यक्रम बनाते भाई-बहन के मध्य संवाद।
2. खेलने व पढ़ने के विषय को लेकर माता तथा पुत्र के मध्य संवाद।
3. ऑटो रिक्शा के किराये को लेकर चालक और महिला के मध्य संवाद।
4. बस/मैट्रो में बैठे दो मुसाफिरों के मध्य गंदगी व सफाई को लेकर संवाद।
5. समय पर पुस्तकें न लौटाने को लेकर पुस्तकालय अध्यक्ष व विद्यार्थी के मध्य संवाद।

2. निम्नलिखित विषयों पर 100 से 120 शब्दों में अनुच्छेद लिखिए।

1. बढ़ता आतंकवाद ; एक चुनौती
2. विज्ञापन और हमारा जीवन
3. दिशाहीन शिक्षित युवावर्ग
4. सम्मान पूर्वक जीना ही जीना है
5. कन्या पराया धन नहीं

3. नीचे दिए गए शब्दों में अनुस्वार व अनुनासिक का प्रयोग नहीं हो पाया है। यथास्थान प्रयोग करते हुए इन्हें पुनः लिखो।

- |             |           |             |            |            |          |            |
|-------------|-----------|-------------|------------|------------|----------|------------|
| 1. विशेषांक | 2. मनगढ़त | 3. सन्यासी  | 4. निकुंज  | 5. सौंदर्य | 6. हिंदी | 7. छुटिया  |
| 8. गंगोत्री | 9. पाव    | 10. उंगलिया | 11. अपनाये | 12. संकेत  | 13. साप  | 14. संवेदन |
| 15. अपाग    | 16. पाडंव | 17. प्रागण  | 18. अनग    | 19. रजित   | 20. गूज  |            |

4. शब्द किसे कहते हैं ? उदाहरण सहित स्पष्ट कीजिये

5. पद किसे कहते हैं ? उदाहरण सहित स्पष्ट कीजिये

6. शब्द व पद में अंतर उदाहरण सहित स्पष्ट कीजिये

7. अनौपचारिक पत्र :-

1. अपने मित्र के जन्मदिन पर उसे बधाई पत्र लिखिए
2. अपनी माता जी को अपना कुशल समाचार देते हुए पत्र लिखिए।
3. सड़क दुर्घटना में घायल मित्र का हाल चाल पूछने के लिए पत्र लिखो।
4. जीवन में हर कदम पर आत्मविश्वास के महत्ता बताते हुए छोटे भाई को पत्र लिखिए।

**Assignment – I**

1. Find five rational numbers between  $\frac{\sqrt{5}}{7}$  and  $\frac{4}{9}$ .
2. Represent following irrational numbers on the number line:  $\sqrt{2}, \sqrt{3}, \sqrt{5}, \sqrt{7}, \sqrt{11}, \sqrt{17}$ .
3. Express  $0.12\bar{3}$  in the form of  $\frac{p}{q}$ .
4. For an irrational number  $x = 2 + \sqrt{3}$ , Find out the nature of the number  $x - \frac{1}{x}$ .
5. Visualise 3.765 on number line using successive magnification.
6. Rationalise and Evaluate :  $\frac{4}{\sqrt{3}-\sqrt{2}} + \frac{3}{\sqrt{3}+\sqrt{2}}$  given  $\sqrt{2} = 1.414$  &  $\sqrt{3} = 1.732$ .
7. Represent  $\sqrt{6.3}$  cm geometrically on the number line.
8. Simplify :  $\sqrt[4]{\sqrt[3]{x^2}}$  and express the result in exponential form .
9. Show that :  $\frac{x^{a(b-c)}}{x^{b(a-c)}} \div \left(\frac{x^b}{x^a}\right) = 1$
10. Find the Value of  $\frac{1}{(216)^{-2/3}} + \frac{1}{(256)^{-3/4}} + \frac{2}{(243)^{-1/5}}$
11. If -4 is a Zero of the polynomial  $p(x)=x^2 + 11x + K$ , then find the value of K.
12. If a polynomial  $x^3 + mx^2 + nx + 6$  has  $(x - 2)$  as a factor and leaves remainder 3, when divided by  $(x - 3)$ , find the value of m and .
13. Factorise  $x^3 - 3x^2 - x + 3$  using factor theorem.
14. Give a relation between  $a$  and  $b$  if  $(x - 1)$  and  $(x + 3)$  are the factors of the Polynomial  $p(x) = x^3 - ax^2 - 13x + b$ . Also find  $a$  and  $b$
15. Evaluate using Identities :  $52 \times 57$ .

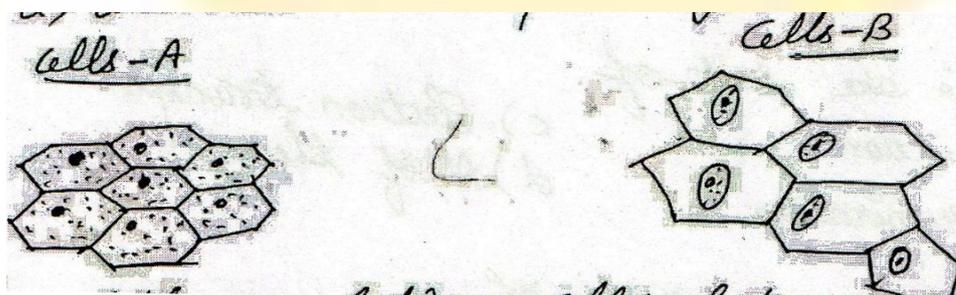
**ASSIGNMENT - II**

01. If  $p = 2 - a$ , prove that  $a^3 + 6ap + p^3 - 8 = 0$
02. Using Factor theorem, factorise the polynomial  $x^3 + x^2 - 4x - 4$
03. Find the Perpendicular distance of the point P(4,6) from x-axis.
04. Mark the points A(2,2), B(2,-2), C(-2,-2) and D(-2,2) on a graph paper and join these points in order. Identify the figure so obtained. Also find the area of the figure.
05. Plot the points (-3,0), (5,0) and (0,4) on Cartesian plane. Name the figure formed by joining these points and find its area.
06. Find the value of K if the line represented by the equation  $2x - ky = 9$  passes through the point (-1,-1).
07. Find the any three solution for the equation  $15x - 2y = 7$
08. When 5 times the larger of the two numbers is divided by the smaller, the quotient and remainder are 2 and 9, respectively. Form a linear equation in two variables for above and give its two solutions.
09. ₹ 27 is in the form of 50 paise, 25 paise and 20 paise coins. The number of 25 paise coins is double the number of 20 paise coins but half the number of 50 paise coins. Find the number of coins of each type.
10. Draw the graphs of the linear equations  $4x - 3y + 4 = 0$  and  $4x - 3y - 20 = 0$ , on the same graph paper. Find the area bounded by these lines and x-axis.
11. The food charges in a hostel are as follows. For the first day, the charges are ₹ 100 and for the subsequent days it is ₹50 per day. Write linear equation for this and draw its graph.
12. Write the equation of the line that is parallel to x-axis and passes through the point (3,5).
13. If A,B and C are three points on a line, and B lies between A and C then prove that  $AB + BC = AC$ .
14. It is known that  $x + y = 12$  and  $x = z$  then show that  $y + z = 12$ .
15. Solve :  $\frac{4}{5}\left(x + \frac{5}{6}\right) - \frac{2}{3}\left(x - \frac{1}{4}\right) = 1\frac{1}{6}$

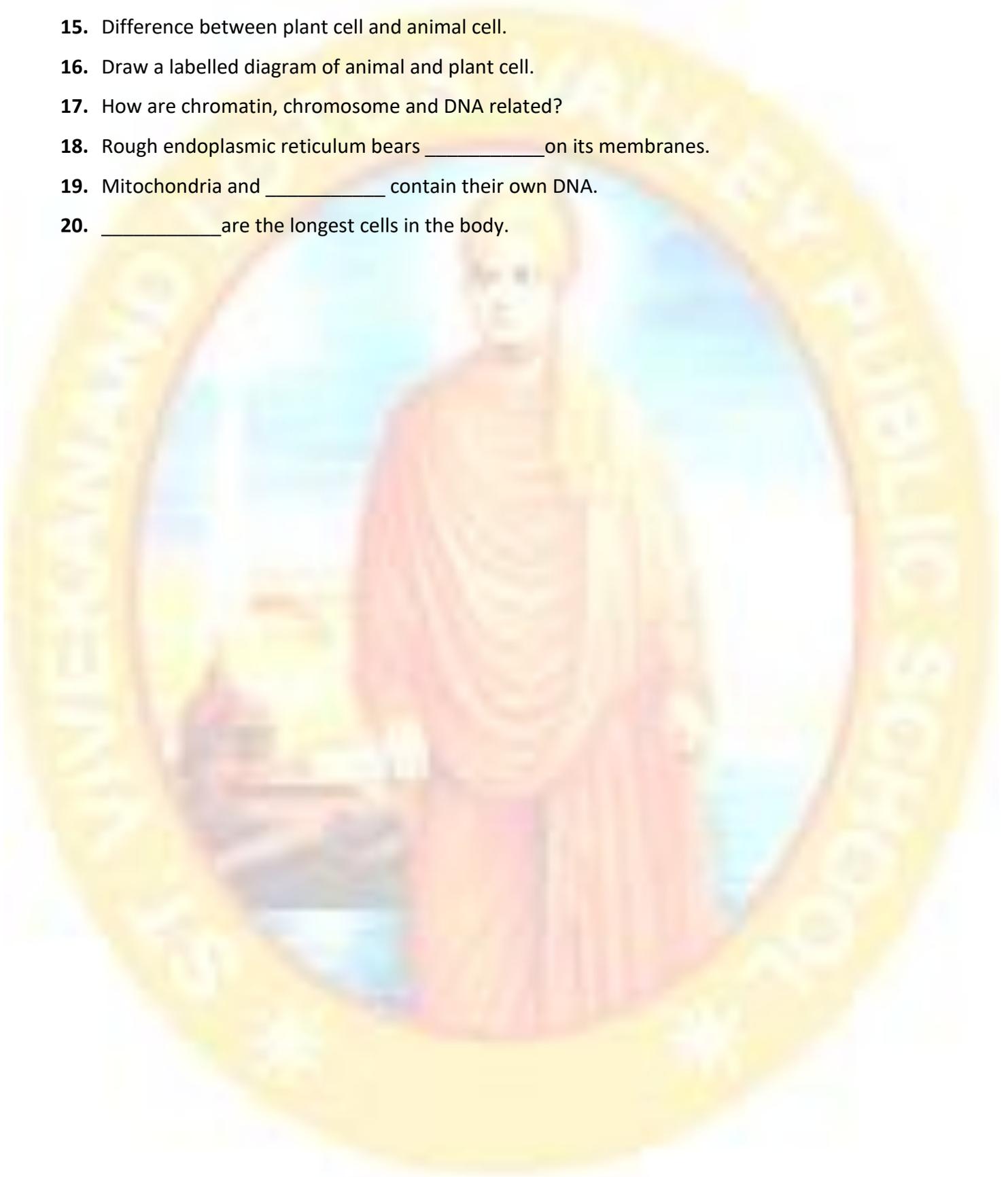
**St. Vivekanand Lotus Valley Public School**  
**Class- IX**  
**Biology**  
**Assignment- 1 (The Fundamental Unit of Life)**

**I. Multiple Choice Questions**

1. Human RBCs are placed in solution. They swell up and finally rupture. The solution is
  - a) Isotonic
  - b) Hypertonic
  - c) Hypotonic
  - d) None of these
2. Mitochondria are seat of
  - a) ATP formulation
  - b) Electron Transport
  - c) Cellular Respiration
  - d) All of these
3. Autolysis is connected with
  - a) Ribosome
  - b) Lysosome
  - c) Kinetosome
  - d) Spherosome
4. The outer most covering of a plant cell is
  - a) Nucleous
  - b) Plastids
  - c) Golgi Complex
  - d) Endoplasmic Reticulum
5. Cell secretion is carried out by
  - a) Nucleolus
  - b) Plastids
  - c) Golgi Complex
  - d) Endoplasmic Reticulum
6. Which organelle does lysosomes arise from?
7. What does the movement of water molecules across a semipermeable membrane called?
8. Where does the transport vesicles arise in the cell?
9. Centrioles are present in all dividing eukaryotic cells. **(True/False)**
10. Plasma membrane can be separated from the cell without causing any damage. **(True/False)**
11. Cell wall does not permit movement of substances in and out of the cell. **(True/False)**
12. a) Identify cells A and B.  
b) What will happen when
  1. Cells – A are kept in hypertonic solution
  2. When cells- B are kept in hypotonic solution?



13. Give differences between chromoplasts and chloroplasts.
14. What is selectively permeable membrane?
15. Difference between plant cell and animal cell.
16. Draw a labelled diagram of animal and plant cell.
17. How are chromatin, chromosome and DNA related?
18. Rough endoplasmic reticulum bears \_\_\_\_\_ on its membranes.
19. Mitochondria and \_\_\_\_\_ contain their own DNA.
20. \_\_\_\_\_ are the longest cells in the body.



**St. Vivekanand Lotus Valley Public School**

**Class- IX**

**Biology**

**Assignment- 2 (Why do we fall ill)**

**I. Multiple Choice Questions**

1. AIDS cannot be transmitted by
  - a) Sexual Contact
  - b) Breast Feeding
  - c) Hugs
  - d) Blood Transfusion
2. Kwashiorkor is caused due to deficiency of
  - a) Iodine
  - b) Carbohydrate
  - c) Vitamins
  - d) Protein
3. An acute disease is the one that
  - a) Lasts for short duration
  - b) Spread by Contact
  - c) Lasts for long duration
  - d) Heritable Disease
4. The infectious agents of which of the following diseases will spread when a patient of his disease coughs
  - a) T.B. and Hepatitis
  - b) AIDS, T.B. and Hepatitis
  - c) Malaria
  - d) Pneumonia
5. The disease not transmitted by mosquitoes is
  - a) Dengue
  - b) Malaria
  - c) Brain fever or Encephalitis
  - d) Pneumonia
6. Immunisation is also called \_\_\_\_\_
7. Microorganisms that can cause disease are called \_\_\_\_\_
8. Difference between signs and symptoms.
9. What is allergy? Name the common allergens that cause allergy in human beings.
10. What is organ or tissue-specific manifestation of infections? Give Examples.
11. Chronic disease can be completely cured. (True/ False)
12. Allergies are caused due to hypersensitivity of body against foreign substances. (True/ False)
13. Accumulation of cell mass due to uncontrolled cell division leads to \_\_\_\_\_
14. Difference between healthy and disease-free person.
15. What are vectors?
16. Write a short note on vaccine.
17. What is an antibiotic?
18. Name the target organ of malarial parasite.
19. Name the causative agents of the following diseases:  
Malaria, Smallpox, Tuberculosis, Pneumonia, Rabies
20. Why is AIDS considered to be a 'syndrome' and not a disease?

**St. Vivekanand Lotus Valley Public School**  
**Class-IX**  
**Physics and Chemistry**

**Assignment – 1**

**Multiple Choice Questions**

**Chapter-3 Atom & Molecules**  
**Chapter-4 Structure of atom**

- 1) Which is not true about Neutron?  
a) It is neutral particle                      c) It is highly unstable in nature  
b) It is present in the nucleus      d) It contributes to the mass of the atom
- 2) The No. of valence electrons in  $\text{Cl}^-$  ion are  
a) 16    b) 8    c) 17    d) 7
- 3) The correct electronic configuration of Mg?  
a) 2,8    b) 2,8,1                      c) 2,8,2    D) 8,2,2
- 4) Which of the following have 18 electrons?  
a)  $\text{K}^+$     b)  $\text{Cl}^-$     c)  $\text{Ca}^{2+}$     d) above
- 5) Anion is formed when an atom  
a) Losses electron    b) losses proton    c) Gain electron    d) None
- 6) If A = mass no., Z= atomic no.    n = no. of neutron then  
a)  $N = A - Z$     b)  $n = Z - A$     c)  $Z = A - n$     d)  $A = Z - n$
- 7) No. of Valence electrons in an element Z=14 is  
a) 5    b) 1    c) 7    d) 3
- 8) Negative charge on an element is due to  
a) Loss of electron    b) gain of e                                      c) No exchange                      d) loss of 2 electron
- 9) Which of the following show valency of 4  
a) Nitrogen ( Z=7)    b) Fluorine ( Z=9)                                      C) Magnesium ( Z=12)    (d) None
- 10) How many shells are present in Sodium?  
a) 1                                      b) 2                                      c) 3                                      d) 4
- 11) Correct formula for ferric sulphate is  
a)  $\text{FeSO}_4$                                       b)  $\text{Fe}(\text{SO}_4)_2$                                       c)  $\text{Fe}_3(\text{SO}_4)_2$                                       d)  $\text{Fe}_2(\text{SO}_4)_3$
- 12) Molecular Mass of NaOH is  
a) 40                                      b) 42                                      c) 60                                      d) 80
- 13) One amu ( atomic mass unit) stands for  
a) An atom of carbon ( c-12)  
b)  $1/12^{\text{th}}$  mass of carbon atom ( c-12)  
c)  $1/12^{\text{th}}$  mass of Hydrogen atom  
d) The atom of any element
- 14) The value of Avogadro's Number is  
a)  $6.0 \times 10^{24}$     b)  $6.0 \times 10^{22}$     c)  $6.022 \times 10^{23}$     d)  $6.022 \times 10^{-23}$

15) No. of moles of 0.6g SO<sub>2</sub> is

a) 100 b) 10 c) 0.01 d) 0.1

16) CH<sub>4</sub> molecule contains

a) 4 atom of H b) 4 atoms of C c) 2 atoms of C d) None

17) what mass of CO<sub>2</sub> will contain 3.011 X 10<sup>23</sup> molecules?

a) 11.0 g b) 22.0 g c) 4.4 g d) 44.0 g

18) Molar mass of Nitrogen Gas ( N<sub>2</sub>) is

a) 28 g b) 14 g c) 7 g d) 30 g

19) Volume of 1 mole of gas at STP equals to

a) 2.24 L b) 22.4 L c) 22.4 cm<sup>3</sup> d) 2.24 m<sup>3</sup>

20) Two elements (A) & (B) have valences of (A) & (B) . Write chemical formula of their respective oxides

a) AO, B<sub>2</sub>O<sub>3</sub> b) A<sub>2</sub>O<sub>3</sub>, B<sub>2</sub>O<sub>3</sub> c) AO, BO d) A<sub>2</sub>O<sub>3</sub>, BO

## PHYSICS NCERT Chapter –I MOTION; CHAPTER-2 FORCE & LAWS OF MOTION

### Assignment -2

21) The distance covered by a car moving at a speed of 36 km/h in 15 minutes is

a) 900km b) 90km c) 9.0 km d) 0.9 km

22) A student goes 4m to east and then turn at right angle and travel 3m distance. The displacement of the boy is

a) 7m b) 5m c) 1m d) 25m

23) if the distance travelled by an object is zero then displacement will be

a) Zero b) not zero c) greater than zero d) None

24) A particle is moving in a circular path of radius 'r' the displacement after half a circle would be

a) zero b) πr c) 2r d) 2πr

25) The slope of velocity time graph of the motion of a body represent

a) distance b) displacement c) speed d) acceleration

26) which of the following is an equation of motion of a body ?

a)  $S = u + \frac{1}{2}at^2$  b)  $v-u = 2aS$  c)  $F = ma$  d)  $p = m$

27) Area under velocity Time graph represents a physical quantity

a)  $ms^{-1}$  b) m c)  $m^2$  d)  $m^3$

28) Negative acceleration of a body is called

a) Retardation b) Uniform Motion c) Non-Uniform Motion d) None

29) Speedometer measures

a) speed b) Average speed c) Instantaneous speed d) Instantaneous velocity

30) Acceleration of a body is given by

a)  $a = v-u/t$  b)  $a = v+u/a^2$  c)  $a = v+v^2/t^2$

31) Newton's first law of Motion is given by

a) law of Inertia b) Law of Momentum c) Law of force d) None

32) Momentum of body is given by

a)  $m/v$  b)  $mv$  c)  $mv^2$  d)  $m^2v^2$

33) Inertia of an object tends to cause the object

- a) to resist any change in its state
- b) to diversify its speed
- c) to increase its speed
- d) to decelerate due to friction

34) A physical quantity which is the product of mass & velocity is called.

a) Inertia b) force c) Momentum d) Energy

35) S.I. Unit of force is

a) Dyne b) Newton c) erg d) joule

## Numerical ( Physics)

- 1) Find the acceleration produced by a force of 20N acting on a body 2kg.
- 2) A motorcycle is moving with velocity of 90km/h and it takes 5 seconds to stop after the breaks are applied. Calculate the force exerted by the brakes on the motorcycle if its mass is 200kg.
- 3) A body of mass 100g is at rest on smooth surface. A force of 0.2N acts on it for 5 seconds calculate the distance travelled.
- 4) A bus of mass 5000kg starts from rest and rolls down a hill. If it travel a distance of 200m calculate i) acceleration ii) force acting on the bus
- 5) ) find the acceleration produced by a force of 20N acting on a body of 5 kg?
- 6) A motor boat starting from rest on a lake accelerates in a straight line at constant rate of  $3.0 \text{ ms}^{-2}$  for 8s. How far the boat travel during this time?
- 7) A farmer moves along the boundary of a square field of the side in 40 sec. what will be the magnitude of displacement of the former at the end of 2 minutes 20 seconds?
- 8) A train 100m long is moving with a velocity of 60 km/h. Find the time it takes cross the bridge of 1 km long.
- 9) A bus decreases its speed from 80 km/h to 50 km/h is 4s. Find the acceleration of the bus.
- 10) An object moves from point A to B with an average speed of  $60 \text{ ms}^{-1}$  and immediately comes back from B to A with an average speed of  $144 \text{ m}^{-1}$

# ST.VIVEKANAND LOTUS VALLEY PUBLIC SCHOOL

## CLASS –IX

### Social Science

#### ASSIGNMENT -1

1. What is the total land mass area of India?
2. Which is the southernmost tip of the Indian main land?
3. Name India's neighboring countries in the North West.
4. What is significance of India's location?
5. What is the standard meridian of India? Why it has been so selected?
6. How is India's geographical location favourable for international trade?
7. When the sun rises in Arunachal Pradesh it is still night in Gujarat why? Give reason.
8. Which is the most important and the longest mountain range of Himachal Himalaya?
9. Name the mountain range which bounds central highlands on the North West?
10. Write any four features of the Himalayas.
11. The land of India displays great physical variations justify by giving examples.
12. Write these facts about lakshadweep islands.
13. Which are the three main ranges of the Himalayas? Describe briefly.
14. Distinguish b/w northern plains and peninsular plateau
15. Distinguish b/w western Himalayas and eastern Himalayas.
16. Distinguish b/w khaddar and bhangar.
17. Distinguish b/w eastern and Western Ghats.
18. Explain the major characteristics of the northern plains of India
20. Mention any four features of Godavari River.
21. What is the importance of lakes?
22. Describe any three features of Ganga –Brahmaputra delta.
23. Describe the main features of Narmada Basin.

24. Distinguish b/w perennial and non perennial rivers?
25. Explain the national river conservation plan in brief.
26. Discuss the significant differences b/w the Himalayan and the Peninsular Rivers.
27. How do rivers affect the economy of the country? Explain.
28. What are the causes of river pollution? How can it be controlled?
29. Examine the economic condition of France before 1789.
30. Which period in French history is known as the reign of terror? Give reasons.
31. What compelled Louis XVI to raise taxes in France?
32. Analyse the role of thinkers and Philosophers in the French revolution.

**NOTE : Make a project report on 'Disaster management'**

# ST.VIVEKANAND LOTUS VALLEY PUBLIC SCHOOL

## Class-IX

### Social Science

#### ASSIGNMENT -2

1. Name any two countries where free and fair elections are not held.
2. Which form of govt. is considered non-democratic.
3. 'Elections in china do not represent people's verdict' analyze the statement.
4. Explain the major features of democracy.
5. 'Democracy improves the quality of decision-making' .explain.
6. 'Democracy provides a method to deal with differences & conflicts'. Explain.
7. Explain the major arguments against democracy.
8. 'Democracy enhances the dignity of citizens' explain.
9. Why do we prefer democracy better than any other form of the govt?
10. 'Indian constitution is the both rigid and flexible 'Analyse the statement.
11. Why do we need constitution and what do constitution do? Explain.
12. India is a 'Sovereign, socialist, secular and democratic republic'. justify.
13. What is apartheid? Examine its major features.
14. Explain the major features which contributed to the making of our constitution.
15. Explain any five characteristics of South African constitution.
16. Why do we need election?
17. What makes elections in India democratic?
18. What are reserved constituencies and its need?
19. Explain the major challenges to free and fair elections
20. Describe any five demerits of electoral competition.