



**ST. ANGEL'S SCHOOL**  
**AUTUMN HOLIDAYS**  
**HOMEWORK(2018-19)**  
**CLASS IX**

# ENGLISH

## SECTION-A

1. choose the most appropriate options from the ones given below to complete the following paragraph

A forty year old man (a)\_\_\_\_\_ and six others (b)\_\_\_\_\_ when the van in which they (c)\_\_\_\_\_ overturned after colliding with a truck last evening.

(a) (i) killed (ii) was killed (iii) was killing (iv) killing

(b) (i) were injured (ii) injured (iii) had been injured (iv) injury

(c) (i) travel (ii) travelled (iii) were travelling (iv) travel

2. The following passage has not been edited. There is one error in each line. Write the incorrect word and the correction in the space provided against the correct blank number

	Error	Correction
Teachers tend to respect hard work or high(a) _____	----	----
quality work. Did your best to keep your(b) _____	----	----
grades up.		
Show them that you had put in a (c) _____	----	----
lot of time or effort.(d) _____	----	----

3. Read the conversation given below and complete the paragraph that follows. Write the answers against the correct blank numbers in your answer sheet. Do not copy the whole sentences.

**Ramu** : What do you want to do ?

**Sham** : I want to go dancing.

**Ramu** : I don't know how to dance.

**Sham** : Don't worry. It's easy.

Ramu asked Sham (a)\_\_\_\_\_. Sham told him (b)\_\_\_\_\_. Ramu told him (c)\_\_\_\_\_. Sham told him not to worry as it was easy.

## SECTION-B

Q1. You have recently enjoyed ride on the Delhi Metro with a close associate. The discipline and the modern technology impressed you and you could not resist the temptation to pen down your experience. Express your joyous experience through a diary entry in not more than 100 – 120 words.

Q2. More and more children are becoming prone to several diseases unheard of so far among children. It is due to change in lifestyle. Write an article in about 100-120 words with the help of the clues given below:

- ✓ Several diseases: heart problems, diabetes etc.
- ✓ Sitting and watching T.V.
- ✓ Do not play games or walk, eat junk food and aerated drinks
- ✓ Advised physical exercise to keep healthy.



Q3. Write a story using the outline given below and your own ideas in about 150-200 words. Assign a suitable title and a moral to it.

A good boy ---continues disobeying his parents---gets into bad company---gets rude and insolent---father gives him some good apple ---tells him to lay them aside for few days ---places a rotten apple among them---- the rotten apple spoils the good ones----- boy learns the lesson and leaves the bad company.

Q4. Read English Newspaper and listen to English News everyday in order to enrich your vocabulary and spoken English.

Q5. Why did Jerome have to reopen the packed bag?

Q6. What did George and Harris offer to pack and why?

Q7. Why did Santosh's parents agree to pay for her schooling in Delhi? What mental qualities of Santosh are brought into light by this incident?

# हिंदी

## भाग 'क'

### 1 अनुच्छेद लेखन

- विज्ञान का मिला जल आधार, भुखी हुआ सारा संसार
- छढती आषाढी, घटते पन
- समाज में नारी का स्थान
- यात्रा जिसे मैं भूल नहीं पाता /पाती

### 2 पत्र लेखन (अनौपचारिक पत्र)

- दीपावली पर पटाखे न जलाने हेतु अनुज को पत्र।
- वार्षिक परीक्षा की तैयारी के लिए छोटी छह न /भाई को प्रेरक पत्र।

### 3 संपाद लेखन

- 'छत्तों का शिक्षा के प्रति कम होता रुझान' विषय पर दो अध्यापिकाओं के मध्य संपाद।
- हिंदी विषय के किसी परियोजना कार्य की तैयारी के विषय में दो छात्रों के बीच संपाद।

### 4 विज्ञापन लेखन

- 'जूस कार्नाब' एवं 'शुद्ध पानी' से संबंधित दो अलग-अलग अलग सुंदर एवं आकर्षक विज्ञापन बनाइए।

## भाग 'ख'

5 'धर्म एकता का माध्यम है'- इस विषय पर अपने विचार लिखिए।

6 सूर्यमंडल में नौ ग्रह हैं। शुक्र सूर्य से कमशः दूरी के अनुसार दूसरा ग्रह है और पृथ्वी तीसरा।

चित्र सहित परियोजना पुस्तिका में अन्य ग्रहों के नाम क्रमानुसार लिखिए।

(उपरोक्त समस्त कार्य व्याकरण की कॉपी में करना है।)

# MATHS

## Ch-4 (Linear Equations In One Variables)

### Section A

Q1.Solve for x:  $(3x-7)/5 - (x+1)/6 = \frac{(2x+2)}{12} - 1$

Q2.Prove that  $x=2$  and  $y=1$  are the solutions of the equation  $2x+5y = 9$ .

Q3.Write 5 solutions for the equation  $y+3x = 9$ .

Q4.Draw the graph of the following:

(i)  $2x-3y = 6$  (ii)  $-3x+4y = 12$

Q5.Express  $3x = 7y$  in the form  $ax+ by+ c = 0$

### Section B

Q1.Draw the graph of the equation  $2x+3y = 5$ .Check whether the points  $(-3,4)$  and  $(7,-3)$  are the solutions of the given equation?

Q2.Plot the points  $(2,1)$  and  $(5,-2)$  and verify from the graph that the straight line joining these points passes through the point  $(-2,5)$

Q3.Express  $x$  in terms of  $y$  in the equation  $3x + 2y = 12$ .Find the point where the line represented by the equation  $3x + 2y = 12$  cuts  $x$ - axis .

Q4.If  $x = 3$  and  $y = -1$  is a solution of the equation  $2x-5y+ k = 0$ , then find the value of  $k$ .

Q5. Write a linear equation  $3x+2y = 18$  in the form of  $ax+by+c = 0$ . Also write the values of  $a,b,c$ . Are  $(4,3)$  and  $(1,2)$  solutions of this equation?

Q10.Give the geometric representation of  $2x-5=0$  as an equation in 2 variables.

## Ch-8 (Quadrilaterals)

### Section A

Q1.The angles of a quadrilateral are in the ratio  $1:2:3:4$ .Find all the angles of the quadrilateral.

Q2.Can all the angles of a quadrilateral be acute angles? Give reason for your answer.

Q3.State and prove mid point theorem.

Q4.ABCD is a parallelogram.If  $\angle A = 65^\circ$ , find  $\angle B + \angle D$ .

Q5.ABCD is a rectangle with  $\angle BAC = 42^\circ$ .Determine  $\angle DBC$ .

### Section B

Q1.D,E and F are the midpoints of the sides BC,CA and AB respectively of an equilateral triangle ABC.Show that DEF is also an equilateral triangle.

Q2.Prove that the angle bisectors of two adjacent angles of parallelogram intersect at right angles.

Q3.Prove that the diagonal divides a parallelogram into two congruent triangles.

Q4.Two opposite angles of a llgm are  $(2x+6)^\circ$  and  $(96-x)^\circ$ . Find the value of  $x$ .

Q5. ABCD is a parallelogram and E is the midpoint of BC.DE and AB on producing meet at F. Prove that  $AF=2AB$ .

# SCIENCE

## PHYSICS

### Chapter- 10 Gravitation

#### Section- A

1. (i) How do fishes float in water?  
(ii) Write the conditions that takes place when a solid is immersed in a fluid.
2. Why does a mug full of water feel lighter inside water?
3. Why is a bucket of water lighter in water than when it is taken out of water?
4. An egg sinks in fresh water but floats in highly salty water. Give reason.
5. Explain why a truck or motor bus has much wider tyres.

#### Section - B

1. A block of wood floats in water at room temperature. If water is now heated what change will occur in state of flotation?
2. Explain why does a man find easier to swim in sea water than in river water.
3. Explain why army tanks are provided with a steel belt over the wheels.
4. A body of volume  $100\text{cm}^3$  is immersed completely in water. Calculate the up thrust on the body. (Density of water =  $10\text{ kg/m}^3$ ,  $g= 9.8\text{ m/s}^2$ )
5. Two different bodies are completely immersed in water and undergo the same loss in weight. Is it necessary that their weights in air should also be the same? Explain.

# CHEMISTRY

## CHAPTER 4 : STRUCTURE OF ATOM

### SECTION A

1. What is the reason for the slightly different physical properties of all isotopes of an atom?
2. What is the number of valence electrons in the atoms of an element having atomic number 13? Name the valence shell of this atom.
3. What are radioactive isotopes? State some uses of radioactive isotopes in industry.
4. What are cathode rays? What conclusion is obtained from the fact that all the gases form cathode rays?
5. Compare all proposed models of an atom given in this chapter.
6. Explain Rutherford's gold foil experiment in detail along with the observations and conclusions.
7. How did Neils Bohr explain the stability of atom?

### SECTION B

8. Write the electronic configurations of any one pair of (a) isotopes, and (b) isobars.
9. Explain why, the atomic masses of many elements are in fractions and not whole numbers.
10. The atom of an element X has 7 electrons in its M shell.
  - (a) Write electronic configuration of element X
  - (b) What is the atomic number of element X?
  - (c) Is it a metal or a non-metal?
  - (d) What type of ion will be formed by an atom of element X? Write the symbol of the ion formed.
  - (e) What could element X be?

# **BIOLOGY**

## **SECTION A Chapter 14**

### ***Natural resources***

1. Name two chemicals that are depleting ozone layer.
2. State 2 methods by which free nitrogen can be converted into nitrates.
3. What is Denitrification and Ammonification?
4. How does the increased level of carbon dioxide leads to Global Warming?
5. List some activities that increases the level of carbon dioxide in atmosphere.
6. Explain carbon cycle with the help of flow chart.

### **SECTION B (CHAPTER: TISSUES)**

11. Differentiate between simple & complex tissues.
12. What are the three types of Meristematic tissue & write their location also.
13. Differentiate between Parenchyma, Collenchyma & Aerenchyma tissues.

# SOCIAL SCIENCE

## History & Political Science

### Section- A

1. Describe the division of french society.
2. What were the main causes of french revolution?
3. Who was the leader of Jacobian club. Explain.
4. Why is democracy considered the best form of government?
5. How was “apartheid” practiced in South Africa

### Section - B

1. How can you say that Louis XVI was a despotic ruler?
2. How was system of reserved constituencies’ introduced for the SC’s and ST’s
3. What does ‘voter turnout’ during an election in India signify?

## Geography & Economics

### Section- A

1. Give main characteristics of the following:
  - Deccan plateau
  - Himadri
  - Northern plains
2. Why are rivers important for countries economy?
3. How is poverty line estimated in India?
4. What is the role of health in human capital formation?

### Section - B

1. How does seasonal unemployment occur?
2. What are the ill effects of green revolution?
3. What is working capital? How is it important factor of production.

**“All the students must wear winter uniform from 22-October 2018, excluding blazers or sweaters.”**

