



**ST. ANGEL'S SCHOOL**  
**SUMMER HOLIDAYS**  
**HOMEWORK(2019-20)**  
**CLASS IX**

# ENGLISH

**Q1. Answer the following questions in about (30-40) words:**

- a) “What a waste!” What is Tommy referring to as a ‘waste’? Is it really a waste?
- b) Does the poet seem happy about his decision in the poem ‘The Road Not Taken’.
- c) While leaving for the Royal Academy of Music, why was Evelyn excited despite her nervousness?
- d) Describe Bismillah Khan as a boy in Duniraon.

**Q.2** Children are the future of the nation. Schools and parents play an important role in moulding a child’s personality. Write an article on the topic ‘Role of School in a child’s life’ in 100-120 words.

Suggested Value Points:

- Importance of school for a child
- The shaping of physical and mental health
- Development of the right attitude
- Character building
- Providing opportunities to develop talents in each child

**Q3. Write a story in 150-200 words based on the input given below: -**

It was cold, foggy morning - the dog - Snoopy – reluctant to come out of its bed – just then suddenly.....

**Q4 Read the following passage and answer the questions that follow .**

Surrounded by the deep blue sea, the tiny hillock consisting of only 80 acres of land, known as Ross Island, was the paradise from which the Commissioner ruled the 293 big and small islands, 8,249 square kilometers in area. Now the only permanent residents of the deserted Ross island were some deer and peacocks. They stamped over many a buried head, of convicts and their executioners, of those who gave orders and those who obeyed them, some good and some evil. Silent trees spread their branches and shoots into the crumbling skeletons of once majestic mansions in a desperate bid to stop them from totally disappearing. A million leaves murmured against the violent gusts of wind trying to dislodge the fragments of the structures from their intricate embrace. Wave after wave pounded the islet from all sides. There was no other sound. Strangely, I never heard any chirping of birds.

- a) Ross Island is a \_\_\_\_\_
- b) \_\_\_\_\_ are the only permanent residents of Ross island.
- c) The only sounds heard on the island are of \_\_\_\_\_
- d) \_\_\_\_\_ pounded the island from all sides.
- e) Find a word from the passage which means same as VANISH
- f) Find the antonym of HELL from the passage.

**Q5. You are Jyoti\Jitender and have taken admission in a hostel and is very happy as the teachers and your room mate are very nice and co-operative. Write a letter to your mother describing the same.**

**Q6. Choose the best words from the options given to complete the following passage.**

The real problem is not with the cars. It is (a)\_\_\_\_\_ (by, in, with, at) the way the government manages the transport system in cities. (b)\_\_\_\_\_ (because, instead, as, despite) of offering incentives to encourage bus transport, our government imposes higher taxes on buses as compared (c)\_\_\_\_\_ (to, with, by, than) cars. Our policy makers don't take into account the social, health and environmental costs of motorisation. Otherwise (d)\_\_\_\_\_ (how, whom, when, why) would they continue with this distorted system that ends up taxing the bus, which moves the (e)\_\_\_\_\_ (biggest, least, largest, longest) numbers of people in our city, more than the car, which drives (f)\_\_\_\_\_ (little, few, some, any) people but hogs valuable road space.

**Q7. There is an error in each of the lines against which a blank is given. Write the incorrect word and the correction in your answer sheets against the correct blank number.**

Oceans has scavengers too!	(a)_____
Crabs, shrimps, young marine eels, sharks or	(b)_____
Many more is members	(c)_____
On the sea clean up squad.	(d)_____
While crabs and lobsters wait from	(e)_____
Food scraps in float by	(f)_____
And than grab them, sharks	(g)_____
Munch to marine animal carcass.	(h)_____

**SUBJECT TEACHER :** \_\_\_\_\_

**HOD:** \_\_\_\_\_

# HINDI

## 1 परियोजना कार्य

- 'हवेली एक प्रसिद्ध होटल है' ग्राहकों को आकर्षित करने के लिए एक सुंदर विवरणिका (ओशर) तैयार कीजिए।  
अथवा
- किसी एक अतंत्रता सेनानी पर चित्र व जानकारी के आधार पर एक अलखम तैयार कीजिए।

## 2 साहित्य

- पाठ का शीर्षक 'दुःख का अधिकार' कहाँ तक सार्थक है ? स्पष्ट कीजिए।
- कवि बैदास के पदों से आपको क्या शिक्षा मिलती है ? स्पष्ट कीजिए।
- एबरेस्ट जैसे महान अभियान में खतरों को और कभी कभी तो मृत्यु भी आदमी को सहज भाव से स्वीकार करनी चाहिए? पाठ के आधार पर स्पष्ट कीजिए।
- 'आदमीनामा' शीर्षक कविता को पढ़कर आपके मन में मनुष्य के प्रति क्या धारणा बनती है ? अपने शब्दों में लिखिए।

## 3 अनुच्छेद लेखन (कोई एक) शब्द सीमा (80 से 100 शब्द)

- राष्ट्र निर्माण में युवा शक्ति का योगदान
- क्रिकेट और भारत
- इंटरनेट: एक संचार क्रांति

## 4 लेखन

- सड़क दुर्घटनाओं को रोकने हेतु परिवाहन मंत्रालय के अध्यक्ष को पत्र लिखिए।  
अथवा  
छैंक में नया खाता खुलवाने हेतु छैंक प्रबंधक का पार्थना पत्र लिखिए।
- चुनावी प्रक्रिया से संबंधित एक सुंदर विज्ञापन तैयार कीजिए।
- आई.पी.एल क्रिकेट प्रतियोगिता में भाग लेने वाले अपने किसी पसंदीदा खिलाड़ी का आई.पी.एल मैचों में योगदान विषय पर 80 से 100 शब्दों में दो मित्रों के बीच संवाद लिखिए।

## 5 व्याकरण

क) उपसर्ग और प्रत्यय से संबंधित 10 10 शब्द लिखिए।

ख) अनुस्वार, अनुनासिक और लुक्ता वाले 10 10 शब्द लिखिए।

(प्रश्न 1 व 2 बैकफ फाइल में व प्रश्न 3,4 और 5 का कार्य व्याकरण की उत्तर - पुस्तिका में करें।)

SUBJECT TEACHER : \_\_\_\_\_

HOD: \_\_\_\_\_

# MATHS

## Chapter- 1(Number Systems)

Q1.Simplify:  $(3\sqrt{5}-5\sqrt{2})(4\sqrt{5}+3\sqrt{2})$

Q2.Find the values of a and b:  $\frac{7+3\sqrt{5}}{3+\sqrt{5}} - \frac{7-3\sqrt{5}}{3-\sqrt{5}} = a+\sqrt{5}$

Q3. If  $x = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$  and  $y = \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$ , find the value of  $x^2 + y^2 + xy$ .

Q4. If  $x = \frac{2-\sqrt{5}}{2+\sqrt{5}}$  and  $y = \frac{2+\sqrt{5}}{2-\sqrt{5}}$ , find the value of  $x^2 - y^2$ .

Q5.  $2^a = 3^b = 6^c$  then show that  $c = \frac{ab}{a+b}$ .

Q6. Simplify:  $\frac{6}{2\sqrt{3}-\sqrt{6}} + \frac{\sqrt{6}}{\sqrt{3}+\sqrt{2}} - \frac{4\sqrt{3}}{\sqrt{6}-\sqrt{2}}$

Q7. Simplify:  $\frac{3\sqrt{2}}{\sqrt{6}-\sqrt{3}} + \frac{2\sqrt{3}}{\sqrt{6}+2} - \frac{4\sqrt{3}}{\sqrt{6}-\sqrt{2}}$

Q8. Show that:  $\frac{1}{3-\sqrt{8}} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-2} = 5$

Q9. If:  $x = \frac{\sqrt{p+q} + \sqrt{p-q}}{\sqrt{p+q} - \sqrt{p-q}}$ , then find the value of  $qx^2 - 2px + q$ .

Q10. Show that:  $\frac{x^{-1}+y^{-1}}{x^{-1}} + \frac{x^{-1}-y^{-1}}{x^{-1}} = \frac{x^2+y^2}{xy}$

## Chapter- 2 (POLYNOMIALS)

Q1. If  $x + y = 12$  and  $xy = 32$ , Find the value of  $x^2 + y^2$ .

Q2. Find the value of k, if  $(x - 1)$  is a factor of  $4x^3 + 3x^2 - 4x + k$

Q3. Write the following cubes in the expanded form:

(i)  $(3a + 4b)^3$

(ii)  $a^6 - b^6$

Q4 Using a suitable identity and without multiplying directly, find the value of  $(0.99) \times (1.01)$ .

Q5. Factorize:-

$$(2x-3y)^3 + (3y-4z)^3 + (4z-2x)^3$$

Q6. If  $a + b + c = 15$  and  $a^2 + b^2 + c^2 = 83$ , find the value of  $a^3 + b^3 + c^3 - 3abc$

Q7. If  $x^2 - 3x + 2$  divides  $x^3 - 6x^2 + ax + b$  exactly, then find the value of 'a' and 'b'

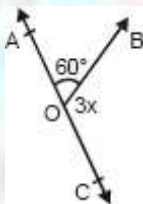
Q8. If  $x^2 + \frac{1}{x^2} = 18$  then find the value of  $x - \frac{1}{x}$ .

Q9. If  $(x-3)$  and  $(x - \frac{1}{3})$  are both factors of  $ax^2 + 5x + b$ . Show that  $a=b$ .

Q10. . The volume of cuboid is given by the expression  $2x^3 + x^2 - 2x - 1$ .  
Find the possible expression for the dimensions of the cuboid.

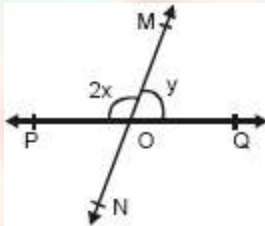
### Chapter- 6(Lines and Angles)

1. In the given figure, AOC is a line, find x.



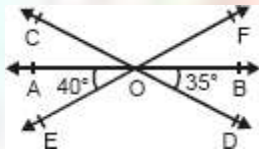
2. In the given figure,  $\overline{PQ}$  and  $\overline{MN}$  intersect at O.

- (a) Determine y, when  $x = 60^\circ$ .
- (b) Determine x, when  $y = 40^\circ$ .



3. In the given figure, lines AB, CD and EF intersect at O.

Find the measure of  $\angle AOC$ ,  $\angle COF$ .



4. The exterior angles obtained on producing the base of a triangle both ways are  $100^\circ$  and  $120^\circ$ . Find all the angles.

Q5. Of the three angles of a triangle, one is double the smallest and another is thrice times the smaller. Find the angles.

**NOTE: Complete the lab activities of term1.**

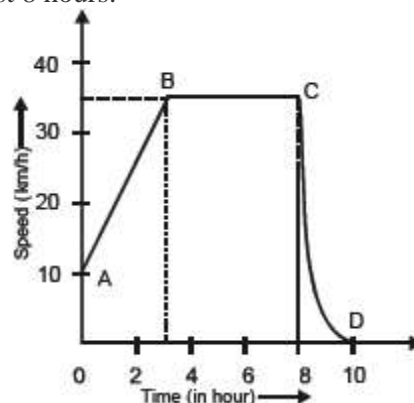
SUBJECT TEACHER : \_\_\_\_\_

HOD: \_\_\_\_\_

# SCIENCE

## PHYSICS

1. A body can have zero average velocity but not zero average speed. Explain.
2. Akhil drove his car with speed of 20km/h while going to his college. When he returned to his home along the same route, the speed of his car is 30km/h. Calculate the average speed of the car during the entire journey.
3. Can a body have constant speed and still be accelerating? Explain by giving an example.
4. The graph given below shows how the speed of a car changes with time.
  - (i) What is the initial speed of the car?
  - (ii) What is the maximum speed attained by the car?
  - (iii) Which part of the graph shows zero acceleration?
  - (iv) Which part of the graph shows varying retardation?
  - (v) Find the distance travelled in first 8 hours.



5. A car is travelling with a speed of 36km/h. The driver applies the brakes and retards the car uniformly. The car is stopped in 5 seconds. Find
  - (i) the retardation of the car and
  - (ii) distance travelled before it is stopped after applying the brakes.
6. A stone is dropped down a well from rest. The well is 50 metre deep. How long will it take to reach the bottom of the well? Given  $a=9.8\text{m/s}^2$
7. An object is moving with uniform speed in a circle of radius  $r$ . Calculate the distance and displacement
  - (i) when it completes half the circle
  - (ii) when it completes full circle
  - (iii) what type of motion does the object possess?
8. A person getting down from the moving bus falls in the direction of the bus. Explain, why.
9. If A and B are two bodies with masses 10 kg and 50 kg respectively, then which body has more inertia and why? Also, calculate the ratio of the inertia of the two bodies.
10. What happens to a person travelling in a bus when the bus takes a sharp turn? Explain.

SUBJECT TEACHER : \_\_\_\_\_

HOD: \_\_\_\_\_

## CHEMISTRY

1. Why is the solid state the most dense state of matter?

2. It is a hot summer day, priyanshi and Sneha are wearing cotton and nylon clothes respectively. Who do you think would be more comfortable and why?
3. A sample of water under study was found to to boil at  $102^{\circ}\text{C}$  at normal temperature and pressure. Is the water pure? Will this water freeze at  $0^{\circ}\text{C}$ ?
4. Bromine particles are almost twice as heavy as chlorine particles. Which gas will diffuse faster? Explain your answer.
5. Why does the temperature of a substance remain constant during its melting or boiling?
6. How can ammonia gas be liquefied?
7. Why do doctors advise to put strips of wet cloth on the forehead of a person having high fever?
8. Difference between evaporation and boiling.
9. Explain why, naphthalene balls kept in clothes in our homes disappear over a period of time.

What is the physical state of water at

- a)  $0\text{K}$
- b)  $373\text{K}$
- c)  $500\text{K}$
- d)  $298\text{K}$

SUBJECT TEACHER : \_\_\_\_\_

HOD: \_\_\_\_\_

## BIOLOGY

### Chapter 5,6

1. State one similarity and one dissimilarity in mitochondria and plastids.
2. What will happen if cells of onion peel and RBC are kept in hypotonic solution ? Give reason.
3. How is endoplasmic reticulum important for membrane biogenesis?
4. Give reason
  - a) Animals of colder region and fishes of cold water have thicker layer of subcutaneous fat.
  - b) Water Hyacinth floats on water surface .
5. If a potted plant is covered with a glass jar, water vapours appears on the wall of glass jar. Explain why?
6. A person takes concentrated solution of salt after sometime he starts vomiting. Which phenomenon is responsible for such situation? Explain.
7. How are chromatin , chromatid and chromosomes related to each other?
8. What happens when
  - a) Rheo leaves are boiled in water first and then a drop of sugar syrup is put on it.
  - b) Dry apricots are left for sometime in pure water and later transferred to sugar solution
9. Prepare a concept map showing all cell organelles with their functions and diagram.(on A3 Sheet)

## SCIENCE MCQ'S

1. Which of the cell organelles consists of chloroplast?

- (a) Plastids



(b) Mitochondria

(c) Vacuoles

(d) Cell wall

2. Root hair absorbs water from soil through

(a) Osmosis

(b) Active transport

(c) Diffusion

(d) Endocytosis

3. Double membrane is absent in-

(a) Mitochondrion

(b) Chloroplast

(c) Nucleus

(d) Lysosome

4. Cuboidal : Epithelial:: Cardiac: \_\_\_\_\_

(a) Nervous

(b) Connective

(c) epithelial

(d) muscular

5. If the tip of sugarcane plant is removed from the field even then it keeps on growing in length. It is due to presence of

(a) cambium

(b) apical meristem

(c) lateral meristem

(d) intercalary meristem

6. If the displacement of an object is proportional to square of time, then the object moves with

(a) uniform velocity

(b) uniform acceleration

(c) increasing acceleration

(d) decreasing acceleration

7. Suppose a boy is enjoying a ride on a merry-go-round which is moving with a constant speed of  $10 \text{ m s}^{-1}$ . It implies that the boy is

(a) at rest

(b) moving with no acceleration

(c) in accelerated motion

(d) moving with uniform velocity

8. In which of the following cases of motions, the distance moved and the magnitude of displacement are equal?

(a) If the car is moving on straight road

(b) If the car is moving in circular path

(c) The pendulum is moving to and fro

(d) The earth is revolving around the Sun

9. Slope of a velocity – time graph gives the

(a) distance

(b) displacement

(c) acceleration

(d) speed

10. The inertia of an object tends to cause the object

(a) to increase its speed

(b) to decrease its speed

(c) to resist any change in its state of motion

(d) to decelerate due to friction

11. Which of the following does not affect rate of evaporation?

- (a) Wind speed
- (b) Surface area
- (c) Temperature
- (d) Insoluble heavy impurities

12. Kinetic energy of molecules is directly proportional to

- (a) Temperature
- (b) Pressure
- (c) Both (a) and (b)
- (d) Atmospheric pressure

13. Under which of the following conditions we can boil water at room temperature?

- (a) At low pressure
- (b) At high pressure
- (c) At very high pressure
- (d) At atmospheric pressure

14. Which of the following has highest kinetic energy?

- (a) Particles of ice at 0 °C
- (b) Particles of water at 0 °C
- (c) Particles of water at 100 °C
- (d) Particles of steam at 100 °C

15. The colour of vapours formed on sublimation of iodine solid is

- (a) Purple (violet)
- (b) Colourless
- (c) Yellow
- (d) Orange

SUBJECT TEACHER : \_\_\_\_\_

HOD: \_\_\_\_\_

# SOCIAL SCIENCE

## HISTORY

### Lesson-1 French Revolution

1. How would you explain the rise of Napoleon?
2. What are the political causes of French Revolution?
3. Describe the role played by the philosophers in French revolution.
4. Describe the legacy of the French Revolution for the peoples of the world during the 19<sup>th</sup> and 20<sup>th</sup> centuries.

SUBJECT TEACHER : \_\_\_\_\_

HOD: \_\_\_\_\_

## **POLITICAL SCIENCE**

### **Lesson-2 What is Democracy? Why Democracy?**

1. Give arguments against democracy.
2. How can you say that Pakistan was not exercising democracy when General Musharaf was ruling?
3. Prepare a list of Democratic and Non Democratic countries and write a report highlighting their differences.

SUBJECT TEACHER : \_\_\_\_\_

HOD: \_\_\_\_\_

## **GEOGRAPHY**

### **Ch-1 India Size and Location**

1. Describe in detail about the Island groups of India.
2. Why is Indian Ocean named after India?
3. Collect information about the recent political development in our neighboring country Maldives and prepare a report.

### **Ch-2 Physical Features of India**

1. Explain the major Physiographic division of India in detail.
2. What are the three types of plate movement on Earth?
3. Why are Shivalik ranges are prone to landslide and Earthquake?
4. On an A3 size sheet draw the map of India Relief and label it.
5. Why Earthquake's and volcano's origin at the plate margins. Discuss

SUBJECT TEACHER : \_\_\_\_\_

HOD: \_\_\_\_\_

## **ECONOMICS**

### **Chapter 1- The Story of Village Palampur**

1. What are the merits and demerits of Green Revolution?
2. Explain the factor of production.
3. Differentiate between Labor and Human Capital.
4. Explain the non-farm activities practiced in Palampur.

**Social Science Project (It is mandatory for every student)**

**Disaster Management**

“Here also is the plight that comes from natural disasters; these natural disasters could be alleviated or dealt with; we only need some time to do it”. **Bhumibol Adulyadej**

Keeping the above statement in mind, prepare a project on **Disaster Management** as per the following guidelines:

**1. Highlight the following:** -

- Definition of ‘Disaster’.
- What is disaster management cycle?
- What is a ‘Hazard’? How is it classified?
- Differentiate between hazard and disaster.
- Contrast and compare physical, chemical and biological hazard.

**2 a. Prevention and Mitigation of Common Disasters.** (Select any two for your project)

- Earthquake
- Cyclones
- Flood
- Drought

**2b. Based on your selection in Point 2a above, enumerate the following in your project:**

- Meaning
- Causes
- Prevention and mitigation measures
- Impact on national economy
- Key challenges to safe schools according to NDMA

**3. Being a young enthusiastic student, you are familiar with your school laboratories. According to you, what would be the various hazards you may face while working in the laboratory and how can they be prevented?**

**General Instruction**

- a. The Project should be hand written and comprise of not more than 15 foolscap pages.
- b. It should be well presented, researched, and pictorial.
- c. Cover page, table of contents, acknowledgements, bibliography, headings and sub – headings are a must
- d. The project should be presented in a file
- e. Do not exceed **700** words.

**4 Prepare a detailed report about the recently concluded Lok Sabha Elections. Include the following points**

- a. Collect the information about the candidates of your constituency.
- b. Briefly describe about the parties contesting elections from your constituency.
- c. Survey at least ten voters from your neighborhood and write their response.
- d. Compile all the above data and prepare a report not in about 1000 words.

SUBJECT TEACHER : \_\_\_\_\_

HOD: \_\_\_\_\_

## ART & CRAFT

Q1. Draw and colour Portrait Heron’s. (English Ch-12,in art file)

Q2. Draw any temple and do collage work on it. (Hindi ch-2,In art file. File’s size should be A3 and decorate your file.)

Q3. Make a Brochure on Kathmandu state. (A3 size )

SUBJECT TEACHER : \_\_\_\_\_

HOD: \_\_\_\_\_

# LIBRARY

## SUGGESTED READING

- SHAKESPEARE
- I AM MALALA
- WINGS OF FIRE

SUBJECT TEACHER : \_\_\_\_\_

HOD: \_\_\_\_\_