ST. ANGEL'S SCHOOL

SUMMER HOLIDAYS

HOMEWORK(2018-19)

CLASS IX

ENGLISH

Q1. You feel that the 'Clean India Campaign' has not been as effective as you thought it should have been. As Ankit/Ankita, write an article in 100-120 words discussing the reasons for this. Also highlight the measures that a common man and a student can take to make it a success.

Q2. 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……..

Q3 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.

Q4. You are Jyoti\Jitender and have taken admission in a hostel and are very happy as the teachers and your room mate are very nice and co-operative. Write a letter to your mother describing the same.

Q5.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.

Q6. 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)_____

Q.7 Answer the following questions in about(30-40)words:

a) What things about the book did she find strange?

b) Discuss "The school plays a significant role in the education of the students"?

c) **Describe the two roads that the author comes across in the poem 'The road not taken'.**

d) **Does the poet seem happy about his decision in the poem 'The road not taken'.**

SUBJECT TEACHER :_____   HOD:_____

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HINDI

1 **परियोजना कार्य**

- महादेवी वर्मा की कोई पाँच कहानी पढ़ें व ए 4 साईज शीट पर लिखकर खुद का कहानी संग्रह तैयार करें।

2 **साहित्य**

- 'दुःख का अधिकार' पाठ में धनी और निर्धन वर्ग का अंतर बडे मार्मिक रूप से उभारा गया है। इस कथन पर प्रकाश डालिए।
- कवि रैदास ने अपने पदों में नामदेव, कबीर, त्रिलोचन आदि कवियों की चर्चा क्यों की है ? स्पष्ट कीजिए।
- उदाहरण सहित सिद्ध कीजिए कि रहीम के दोहे आज भी प्रासंगिक है।
- 'स्मृति' पाठ में अंत में लेखक ने सारी घटना अपनी माँ को कह सुनाई। यदि उस समय लेखक की माँ के स्थान पर आप होते तो आपकी क्या प्रतिक्रिया होती ? स्पष्ट कीजिए।
- 'मन के हारे हार है, मन के जीते जीत' 'एवरेस्ट : मेरी शिखर यात्रा' पाठ के आधार पर अपने विचार अभिव्यक्त कीजिए।
- 'आदमीनामा' कविता का मूलभाव अपने शब्दों में लिखिए।

3 **अनुच्छेद लेखन**

- विज्ञापन और हमारा जीवन
- पर्वतीय स्थल कौसानी
- अतिथि देवो भवः
- मोबाईल फ़ोन के लाभ और हानि

4 **पत्र लेखन**

- जीवन में समय के सद्उपयोग की महत्ता के बारे में बताते हुए छोटे भाई को पत्र लिखिए।
- क्रिकेट प्रतियोगिता में भाग लेने हेतु अपने विद्यालय के खेल अध्यापक को पत्र लिखिए।

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

SUBJECT TEACHER :_____   HOD:_____

MATHS

Chapter- 1(Number Systems)

Q1- If $2^x \times 4^x = 8^{1/3} \times (32)^{1/5}$,find x.

Q2.Find 9 rational numbers between 0 and 0.1

Q3.Represent $\sqrt{10}$ geometrically on the number line.

Q4.Give example of two irrational numbers,the product of which is (a)a rational number (b)an irrational number.

Q5.If x = (5 + 2$\sqrt{6}$), show that ($\sqrt{x}$ + 1/$\sqrt{x}$) = ±2$\sqrt{3}$.

Q6.If x = 1/(2-$\sqrt{3}$), show that the value of $(x^3 - 2x^2 - 7x + 5)$ is 3.

Q7- Show that $\dfrac{1}{\sqrt{2}+\sqrt{3}-\sqrt{5}} - \dfrac{1}{\sqrt{2}-\sqrt{3}+\sqrt{5}} = \dfrac{1}{\sqrt{3}}$

Q8 If a=$\dfrac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$ and b=$\dfrac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$. Find the value of $a^2 + b^2 - 5ab$

Q9 Show that $\dfrac{x^{a(b-c)}}{x^{b(a-c)}}$ divided by $\left(\dfrac{x^b}{x^a}\right)^c = 1$

Q10. Simplify each of the following :

(i) $3\sqrt{48} - \dfrac{5}{2}\sqrt{\dfrac{1}{3}} + 4\sqrt{3}$ (ii) $\sqrt[4]{81} - 8\sqrt[3]{216} + 15\sqrt[5]{32} + \sqrt{225}$

Chapter- 2 (POLYNOMIALS)

Q1 Factorize : $64a^3 - 27b^3 - 144a^2b + 108ab^2$

Q2.Without actually calculating the cubes, find the value of

$(-12)^3 + (7)^3 + (5)^3$

Q3.If (x-3) and (x - $\dfrac{1}{3}$) are both factors of $ax^2 + 5x + b$. Show that a=b.

Q4. Find the remainder when polynomial g(x)= $x^3 - ax^2 + 6x - a$ is divided by x-a

Q5.The polynomial $ax^3 + bx^2 + x - 6$ has (x+2)as a factor and leaves a   remainder 4 when divided by (x-2). Find a&b.

Q6. Factorize:-

   a) $x^3 - 3x^2 - 9x - 5$

   b) $\dfrac{3}{2}x^2 - x - \dfrac{4}{3}$

Q7. 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.

Q8. Factorize:-

a) $a^6 - b^6$

b) $64m^3 - 343n^3$

Q9. Factorize:-

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

Q10. Using a suitable identity and without multiplying directly, find the value of(0.99)x(1.01).

Chapter- 3 (Coordinate Geometry)

Q1 The point of intersection of coordinate axis is called

   a) Common point   b)Null point   c)Origin   d)Zero point.

Q2 The point (0,-3) lies on

   a)(+ve) x-axis   b)(+ve)y-axis   c)(-ve)x-axis   d)(-ve) y-axis

Q3 State the quadrant in which the following point lie:-

   a)2,1   b)5,-2   c)-7, 11   d)2,2

   e)-6,-4   f)6,-11   g) 6, -6   h)-5,6

Q4 Plot the following ordered pairs in Cartesian Plane. Use scale 1cm=1unit on axis.

X	-3	0	-1	4	2
Y	7	-3.5	-3	4	-3

Q5 Name the points of the plane which do not belong to any of the quadrants.

Q6. Find some ordered pairs of the linear equation 2x+y = 4 and plot them in the Cartesian plane.How many such ordered pairs can be found and plotted.

Q7.Draw a rectangle ABCD on graph with A (-6,4) , B (-6,2), C (-2,2) and D (-2,4).

Chapter- 5 (Introduction to Euclid"s Geometry)

Q 1- In fig. AB = CD, then prove that AC = BD

Q2- Prove that every line segment has one and only one mid point.

Q3- Prove that an equilateral triangle can be constructed on any given line segment.

Q4- If A, B and C are three points on a line and B is between A and C, then prove that AC−BC = AB.

Q5- Show that two distinct lines cannot have more than one point in common.

NOTE : (1) Do all the questions in a separate register.

       (2) Complete the lab activities done in class in the activity file.

SUBJECT TEACHER :_____   HOD:_____

SCIENCE

PHYSICS

Chapter 8- Motion

Chapter 9-Force and Laws of Motion

1. What does negative acceleration mean?
2. A car travels 100 km at a speed of 60 km/h and returns with a speed of 40 km/h. Calculate the average speed for the whole journey.
3. Draw a velocity-time graph to show the following motion:
   A car accelerates uniformly from rest for 5 s; then it travels at a steady velocity for 5 s.
4. What is the difference between uniform linear motion and uniform circular motion? Explain with examples.
5. A cheetah starts from rest, and accelerates at 2 m/s^2 for 10 seconds. Calculate:
   a. the final velocity
   b. the distance travelled
6. Why are road accidents at high speeds very much worse than road accidents at low speeds?
7. If action is always equal to reaction, explain why a cart pulled by a horse can be moved.
8. A truck of mass 500 kg moving at 4 m/s collides with another truck of mass 1500 kg moving in the same direction at 2 m/s. What is their common velocity just after the collision if they move off together?
9. If a balloon filled with air and its mouth untied, is released with its mouth in the downward direction, it moves upwards. Why?
10. Why would an aircraft be unable to fly on the moon?

SUBJECT TEACHER :_____   HOD:_____

CHEMISTRY

Chapter1 : Matter in our surroundings

1. Why is a liquid (hydraulic fluid) used to operate the brakes in a car?
2. Explain why, a small volume of water in a kettle can fill a kitchen with steam.
3. Why does a gas exert pressure ?
4. Bromine particles are almost twice as heavy as chlorine particles. Which gas will diffuse faster? Explain your answer.
5. What do you mean by Latent heat? Explain latent heat of fusion and latent heat of vaporization by taking suitable example.
6. How can ammonia gas be liquefied?
7. Why do you observe small drops of water on the outside surface of a tumbler containing crushed ice.
8. Why does steam cause more severe burns than boiling water?
9. Explain why, naphthalene balls kept in clothes in our homes disappear over a period of time.
10. What is the physical state of water at
    a) 0K
    b)373K
    c)500K
    d) 298K

SUBJECT TEACHER :_____   HOD:_____

BIOLOGY

Ch 5 -The Fundamental Unit of Life

Q.1 How are the mitochondria able to make some of their proteins?

Q.2 Which organelle is concerned with regulation of all metabolic activity of cell ?

Q.3 Differentiate between cell wall and cell membrane ?

Q.4 Draw a labelled diagram of an eukaryotic nucleus. How is it different from nucleoid?

Q.5 Name the organelles which show the analogy written as under:

(a) Transporting channels of the cell

   (b) Power house of the cell

(c) Packaging and dispatching unit of the cell

   (d) Digestive bag of the cell

(e) Storage sacs of the cell

(f) Kitchen of the cell

(g) Control room of the cell

Q.6 What will happen if an egg without shell placed in concentrated salt solution for 5 minutes ?

  Q7 Differentiate between RER and SER .How is endoplasmic reticulum important for membrane biogenesis?

Q.8 What is the significance of cell wall in plant cell ?

Q9 Who proposed cell theory? What it states? What modification   Virchow made in it?

Q.10 When a cell placed in a distilled water , it swells .What process is involved in it? Define it.

SUBJECT TEACHER :_____   HOD:_____

SOCIAL SCIENCE

HISTORY

HISTORY: Lesson-1 French Revolution

POLITICAL SCIENCE: Lesson-2 What is Democracy? Why Democracy?

HISTORY

Lesson-1 French Revolution

1. How would you explain the rise of Napoleon?
2. Describe the legacy of the French Revolution for the peoples of the world during the 19th and 20th centuries.

SUBJECT TEACHER :_____   HOD:_____

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?

SUBJECT TEACHER :_____   HOD:_____

GEOGRAPHY ASSIGNMENT

Ch-1 India Size and Location

1. Describe in detail about the Island groups of India.
2. Why is Indian Ocean named after India?

Ch-2 Physical Features of India

3. Explain the major Physiographic division of India in detail.
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

Disaster Management 2018 – 2019

"We cannot stop natural disasters but we can arm ourselves with knowledge: so many lives wouldn't have to be lost if there was enough disaster preparedness." - Petra Nemcova

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.

The distribution of marks is as follows:

S.NO.	ASPECTS	MARKS
1	Content accuracy and originality	1
2	Presentation and creativity	1
3	Process of Project Completion : Initiative, cooperativeness, participation and punctuality	1
4	Viva or written test for content assimilation	2

SUBJECT TEACHER :_____   HOD:_____

Chapter 1- The Story of Village Palampur
1. What are the merits and demerits of Green Revolution?
2. Differentiate between Labour and Human Capital.
3. Explain the non-farm activities practiced in Palampur.

SUBJECT TEACHER :_____   HOD:_____

ART & CRAFT

➢ Collage (Ref. Pg. 99 -101) in Art File.

➢ Make a **group of 4 students (R.No. 1-4,5-8,9-12, ...) & do following activities** Take help from Text Book or Internet**:**

1. Card Design/ T-Shirt Design (Pg. 102) (Group Activity- Card should be done with quilling work or popup style.)
2. Make a Poster on 'Earth Conservation' or 'Save our Nature' on full Ivory or Patel sheet) (Group Activity)

SUBJECT TEACHER :_____   HOD:_____

LIBRARY

SUGGESTED READING

- ➤ STORY OF MY LIFE-HELLEN KELLER
- ➤ SHAKESPEARE
- ➤ WINGS OF FIRE

SUBJECT TEACHER :_____   HOD:_____