ST. ANGEL'S SCHOOL SUMMER HOLIDAYS HOMEWORK(2018-19) CLASS X

ENGLISH

Q1. Read the following conversation carefully and complete the following passage by filling in the blank spaces appropriately.

1. Patient: Doctor, I have a terrible toothache.
   Doctor: Well, sit down. I need to examine your teeth. Please open your mouth wide.
   Patient : Is there any serious problem, doctor?

The patient told the doctor (a) _____ The doctor told him to sit down as (b) _____He also requested the patient (c) _____ The patient then enquired (d) _____

2. David: When will you meet me?
   Henry: I think that I will come to your home on Sunday.
   David: Ok! Then I will wait for you.

Once David telephoned Henry and asked (a) _____. Henry replied (b) _____on Sunday. David claimed that (c) _____

Q2. Underline each error and write the correction in the space provided.

One morning, the Nawab call a) _____
his minister and said him b) _____
that I wanted the length and c) _____
breadth from the earth d) _____
measured. He also feel the e) _____
need to have the stars on the f) _____
sky counted. The minister says g) _____
that the task he have been h) _____
set being impossible. i) _____

Q3. Video games, Internet, cell phones and high tech gear are just part of growing up in the digital world. But parents are concerned about the amount of time their children spend with these and worry that it might be distracting and cramping academic and social development. Write an article in 120words describing both benefits and harms of high tech devices.

Q4 Answer the following questions in 30-40 words only

a) Why were the boys called gentlemen?
b) What did the nurse tell the narrator about the boys?
c) Find out the elements of irony from the poem “The Frog and the Nightingale?
d) Write the character traits of Miss Mebbin.

Q.5 Answer the following questions in 100-125 words:-

a) Describe the frost king controversy of Helen’s life?
b) Write the character sketch of Miss Sullivan.

SUBJECT TEACHER :_____ **HOD:_____**

हिंदी

साहित्य (स्पर्श एवं संचयन)

1.पढ़ाए गए सभी पाठों को ध्यानपूर्वक पढ़िए एवं प्रत्येक पाठ से एक-एक मूल्यपरक प्रश्न अथवा उच्च स्तरीय प्रश्न रचना कीजिए एवं उनके उत्तर लिखिए| (जो उत्तर पुस्तिका में ना लिखे हो)

2.पाठों को पढ़ते समय आने वाले सामासिक पद,संधियाँ एवं मुहावरे अपनी उत्तर पुस्तिका में लिखिए|

व्यावहारिक व्याकरण

अनुच्छेदलेखन

1. आकाश की ऊंचाइयों को छूता मानव-
   संकेतबिंदु- शीर्षक का अभिप्राय- विभिन्न क्षेत्रों में विकास- मानव का अदम्य साहस- विभिन्न उपलब्धियाँ |
2. आज की पुकार - संयुक्त परिवार-
   संकेतबिंदु- युवा पीढ़ी को रिश्ते की पहचान- मिल-जुल कर रहने की भावना- बुजुर्गों की उपस्थिति व म महत्त्व -अकेलेपन की मुक्ति|
3. जनसंचारमाध्यम-
   संकेत बिंदु- संचार का अर्थ- जनसंचार का स्वरूप- जनसंचार के कार्य- जनसंचार के विभिन्न उपकरण

पत्र लेखन

1. क्षेत्र में बढ़ते अपराधों की सूचना देते हुए क्षेत्र के थानाध्यक्ष को पत्र लिखिए|
2. आप विद्यालय की वाद-विवाद प्रतियोगिता में भाग लेना चाहते हैं| इस प्रार्थना के साथ अपने प्रधानाचार्य को पत्र लिखिए|
3. अपने क्षेत्र के पेड़-पौधों की अनियंत्रित कटाई को रोकने के लिए जिलाधिकारी को पत्र लिखिए|

संवाद लेखन

1. आगामी बोर्ड की परीक्षा की तैयारी को लेकर अपने और अपने मित्र के बीच में संवाद लिखिए|
2. एक सफल जीवन के लिए अनुशासन की महत्त्वपूर्ण भूमिका होती है| इस विषय को आधार बनाकर अपने और अपने मित्र के बीच संवाद लिखिए|
3. पाश्चात्य सभ्यता का अनुकरण करने के कारण आज की पीढ़ी अपनी संस्कृति से दूर होती जा रही है इस विषय को आधार बनाकर दो मित्रों के बीच संवाद लिखिए|

SUBJECT TEACHER :_____ **HOD:**_____

MATHS

- **Complete Activity File**
- **Do assignment in a separate register**

CHAPTER 1 REAL NUMBERS

Q1. Find the H.C.F. of the largest composite number less than or equal to 10 and the smallest prime number.

Q2 If a = 4q + r then what are the conditions for r and q.

Q3 What is the digit at unit's place of 9^n?

Q4 Solve $\sqrt{18} * \sqrt{50}$ What type of number is it, rational or irrational.

Q5. What is the smallest number by which $\sqrt{5} - \sqrt{3}$ be multiplied to make it a rational no? Also find the no. so obtained.

Q6. Find one rational and one irrational no. between $\sqrt{2}$ and $.\sqrt{3}$

Q7. State fundamental theorem of Arithmetic and hence find the unique factorization of 120.

Q8. State Euclid's Division Lemma and hence find HCF of 256 and 28.

Q9. Find HCF and LCM of 56 and 112 by prime factorization method.

Q10. If the HCF of 210 and 55 is expressible in the form 210 × + 55y then find x and y.

CHAPTER 2 POLYNOMIALS

Q1. If α, β are the zeroes of the polynomial $p(x) = x^2 - a(x + 1) - b$ such that $(\alpha + 1)(\beta + 1) = 0$ then find value of b.

Q2. If α and β are the zeroes of the polynomial $2x^2 - 7x + 3$. Find the sum of the reciprocal of its zeros.

Q3. If (x + p) is a factor of the polynomial $2x^2 + 2px + 5x + 10$ find p.

Q4. If one of the zero of the polynomial $g(x) = (k^2 + 4)x^2 + 13x + 4k$ is reciprocal of the other, find k.

Q5. If $\frac{1}{5}$ and – 2 are respectively product and sum of the zeroes of a Quadratic polynomial. Find the polynomial.

Q 6. If α, β are the zeroes of the polynomial $x^2 - (k + 6)x + 2(2k - 1)$. Find k if $\alpha + \beta = \frac{1}{2}\alpha\beta$

Q7. Find a quadratic polynomial whose zeroes are $7-3\sqrt{2}$ and $7+3\sqrt{2}$

Q8. If sum of the zeroes of $kx^2 + 3k + 2x$ is equal to their product. Find k.

Q9. If α, β be the zeroes of the quadratic polynomial $2 - 3x - x^2$ then find the value of $\alpha + \beta(1 + \alpha)$.

Q10. Form a quadratic polynomial, one of whose zero is $2-\sqrt{5}$ and the sum of zeroes is 4.

CHAPTER-3 LINEAR EQUATION IN TWO VARIABLES

Q1. Form a pair of linear equations for: If twice the son's age is added to father's age, the sum is 70. If twice the father's age is added to the son's age the sum is 95.

Q2. Write a pair of linear equations which has the unique solution x = –1 and y = 4. How many such pairs are there?

Q3. Amar gives Rs.9000 to some athletes of a school as scholarship every month. Had there been 20 more athletes each would have got Rs.160 less. Form a pair of linear equations for this.

Q4. Dinesh is walking along the line joining (1, 4) and (0, 6), Naresh is walking along the line joining (3, 4,) and (1,0). Represent on graph and find the point where both of them cross each other.

Q5. Solve the pair of linear equations

$3x – 7y = 13$

$2x + 5y = -1$

Q6. For what value of p the pair of linear equations

$(p + 2)\, x – (2\, p + 1)y = 3\,(2p – 1)$

$2x – 3y = 7$

has unique solution.

Q7. Given the linear equation x + 3y = 4, write another linear equation in two variables such that the geometrical representation of the pair so formed is (i) intersecting lines (ii) parallel lines (iii) coincident lines.

Q8. Find the value of K so that the pair of linear equations:

$(3\, K + 1)\, x + 3y – 2 = 0$

$(K^2 + 1)\, x + (k–2)\, y – 5 = 0$ is inconsistent.

Q9. Solve x – y = 4, x + y = 10 and hence find the value of p when y = 3 x –p

Q10. Determine the values of a and b for which the given system of linear equations has infinitely many solutions:

$2x + 3y = 7$

$a(x + y) – b(x – y) = 3a + b – 2$

Chapter -4 Quadratic Equation

Q1. Two pipes running together can fill a cistern in $2\frac{8}{11}$ minutes. If one pipe takes 1 minute more than the other to fill the cistern, find the time in which each pipe would fill the cistern alone.

Q2. If the roots of $4x^2 + 3px + 9 = 0$ are real and distinct, find the value of p?

Q3. The product of two consecutive odd integers is 63. Represent this in form of a quadratic equation.

Q4. Find the value of c for which one roots of $4x^2 - 2x + (c - 4) = 0$ is reciprocal of the other.

Q5. Find 'k' so that $(k - 12)x^2 + 2(k - 12)x + 2 = 0$ has equal roots.(k≠12).

Q6. Find the value of K, so that the difference of the roots of $x^2 - 5x + 3(k-1)$ is 11.

Q7. The difference of two numbers is 5 and the difference of their reciprocals is $\frac{7}{10}$. Find the numbers.

Q8. If the roots of the equation $(b - c)x^2 + (c - a)x + (a - b) = 0$ are equal, then prove that $2b = a + c$.

Q9. Find the nature of the roots of the following quadratic equations. If roots are real, find them.

(a) $5x^2 - 3x + 2 = 0$.

(b) $2x^2 - 9x + 9 = 0$.

Q10. Sum of two numbers is 15, if sum of their reciprocals is $\frac{3}{10}$. Find the numbers.

CHAPTER-5 ARITHEMETIC PROGRESSION

Q1. Pure and Ashu live in two different villages 165 km apart. They want to meet each other but there is no fast means of transport. Puru travels 15 km the first day, 14 km the second day, 13 km the third day and so on. Ashu travels 10 km the first day, 12 km the second dry, 14 km the third day and so on. After how many days will they meet.

Q2. Which term of the A.P. 41, 38, 35... is the first negative term? Find the term also.

Q3. Nidhi saves Rs. 2 on day 1, Rs. 4 on day 2, Rs. 6 on day 3 and so on. How much money she save in month of Feb. 2011?

Q4. If S_n the sum of first n terms of an A.P. is given by $S_n = 3n^2 - 4n$, then find its nth term and common difference.

Q5. The sum of 4th and 8th terms of an A.P. is 24 and sum of 6th and 10th terms is 44. Find A.P.

Q6. How many terms of the A.P. 22, 20, 18, _____ should be taken so that their sum is zero?

Q7. $4k + 8$, $2k^2 + 3k + 6$, $3k^2 + 4k + 4$ are the angles of a triangle. These form an A.P. Find value of k.

Q8. If 11 times of 11th term is equal to 17 times of 17th term of an A.P. find I ts 28th term..

Q9. The fourth term of an A.P. is equal to 3 times the first term and the seventh term exceeds twice the third term by 1. Find the first term and common difference of the A.P.

Q10. Find the middle term of the A.P. 20, 16, 12, ..., –176.

SUBJECT TEACHER :_____ **HOD:**_____

SCIENCE

PHYSICS

Chapter- 10 Light-Reflection and Refraction

Chapter- 11 Human Eye and its colourful world

1. **What is the difference between regular reflection of light and diffused reflection of light? What type of reflection of light takes place from:**
   a. A cinema screen
   b. A plane mirror
   c. A cardboard
   d. Still water surface of a lake
2. A man stands 10 m in front of a large plane mirror. How far must he walk before he is 5 m away from his image?
3. If an object is placed at a distance of 8 cm from a concave mirror of focal length 10 cm, discuss the nature of the image formed by drawing the ray diagram.
4. How will you distinguish between a plane mirror, a concave mirror and a convex mirror without touching them?
5. An object is placed at a distance equal to 2f in front of a convex lens. Draw a labelled ray diagram to show the formation of image. State the characteristics of the image formed.
6. At what distance from a converging lens of focal length 12 cm must an object be placed in order that an image of magnification 1 will be produced?
7. **The optical prescription for a pair of spectacles is:**
   Right eye: -3.50 D Left eye: -4.00 D
   a. Are these lenses thinner at the middle or at the edges?
   b. Which lens has a greater focal length?
   c. Which is the weaker eye?
8. Describe and explain, how a normal eye can see objects lying at various distances clearly.
9. Explain with the help of labelled ray-diagram, the defect of vision called hypermetropia, and how it is corrected by a lens.
10. Explain why, the planets do not twinkle at night.

SUBJECT TEACHER :_____ **HOD:**_____

CHEMISTRY

Chapter 1 chemical reactions and equations

Chapter 2 Acids, Bases and salts

1) Write the balanced chemical equations for the following reactions:
   a) Sodium carbonate on reaction with hydrochloric acid in equal molar concentration give sodium chloride and sodium hydrogen carbonate.
   b) Sodium hydrogen carbonate on reaction with hydrochloric acid gives sodium chloride, water and liberates carbon dioxide.
   c) Copper sulphate on treatment with potassium iodide precipitates cuprous iodide , liberates iodine gas also forms potassium sulphate.

2) Why silver nitrate solution cannot be stored in copper containers?

3) Blue colour of copper sulphate solution starts fading when zinc rod is dipped in it. Give reason for the same.

4) A chemical reaction which is combination as well as exothermic, is used for white washing purposes. Write the equation for the same.

5) How and why do fireflies light up?

6) A solution of HCl in water conducts electricity but that of glucose in water doesnot. Why?

7) What is a hydronium ion? How is it formed?

8) When an acid mixed with water, what happens to
   a) conc. of hydronium ion per unit volume.
   b) conc. of hydroxide ion per unit volume.

9) Why should POP be stored in air tight container?

10) What is the role of tartaric acid in baking powder?

SUBJECT TEACHER :_____ **HOD:**_____

BIOLOGY

Chapter-6 : Life Processes

Q.1 Describe double circulation in human beings. Why is it necessary?

Q.2Differentiate between the transport of materials in xylem and phloem.

Q.3What would be the consequence of a deficiency of haemoglobin in our body?

Q.4Differentiate between aerobic and anaerobic respiration.

Q.5What are peristaltic movements?

Q.6What are the functions of liver and pancreas?

Q.7State the function of epiglottis.

Q.8 How do the guard cells regulate opening and closing of stomata?

Q.9 What substances are contained in the gastric juice? What are their functions

Q.10 Why is cigarette smoking injurious to health?

Chapter-7 Control And Coordination

Q.1 How does our body respond when adrenaline is secreted into the blood?

Q.2 Give one example of a plant hormone that inhibits growth.

Q.3 Define chemotropism.

Q.4 Write the functions of three parts of hind-brain.

Q.5 Answer the following:

(a) Name the endocrine gland associated with brain.

(b)Which gland secretes digestive enzymes as well as hormones?

(c) Name the endocrine gland associated with kidneys.

(d) which endocrine gland is present in males but not in females?

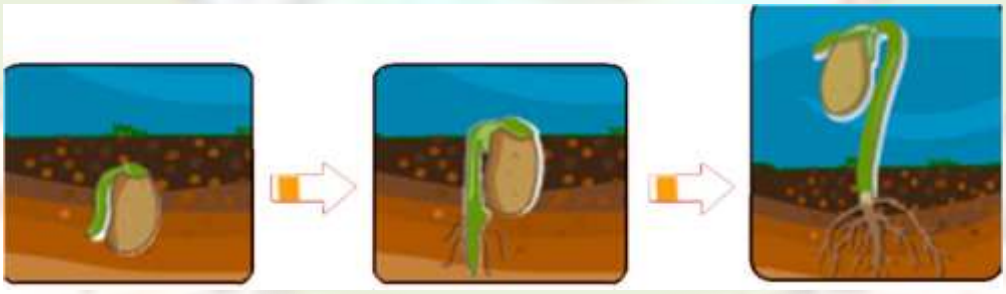
Q.6 How does the design of the human body solve the problem of being hurt when we suddenly come across a dangerous situation?

Q.7 Why food loses its flavour when you have a cold?

Q.8 Which tropism is shown by the growth of pollen tube through the style towards the ovule?

Q.9 Give examples of plant hormones that promote growth.

Q.10 Observe the figures given below which show the various stages of germination of a seed which is exposed to unilateral source of light.Answer the following questions on the basis of your observation.



(a)What type of plant is shown in the figure?

(b)Which phytohormone is chiefly responsible for this movement?

(c)On which side of the shoot is the auxin concentrated?

SUBJECT TEACHER :_____ **HOD:**_____

SOCIAL SCIENCE

HISTORY & POLITICAL SCIENCE

CHAPTERS COVERED

HISTORY: **LESSON-6 WORK, LIFE AND LEISURE**

POLITICAL SCIENCE: **Lesson-1 Power Sharing**
Lesson-2 Federalism

HISTORY

LESSON-6 WORK,LIFE AND LEISURE

1. Explain how a city like Calcutta faced the problem of environmental problem?
2. How was the "Marine Drive"devised?

POLITICAL SCIENCE

Lesson-1 Power Sharing

1. How powers are shared in different social groups and why?
2. What do you mean by Belgium model? Examine the main elements of the Belgium model of power sharing?

Lesson-2 Federalism

1. Distinguish between 'coming together' and 'holding together' types of federation.
2. "The creation of linguistic states was for the first and major fest for the democratic politics in our country" Justify this statement.

SUBJECT TEACHER :_____ **HOD:**_____

GEOGRAPHY

CHAPTERS COVERED

:Ch-1 Resource and Development,
Ch-2 Forest and Wildlife Resource,
Ch-3- Water Resources

GEOGRAPHY ASSIGNMENT

Ch-1 Resource and Development

1. Classify resources on the basis of origin, exhaustibility and ownership and draw a flow chart.
2. Imagine if oil supplies get exhausted, how this will affect our lifestyle. Discuss.

Ch-2 Forest and Wildlife Resource

3. Which major Conservation movements have contributed towards the conservation of Flora and Fauna?
4. Prepare a report on the steps taken by the government of India to protect the Tiger population over the past decade.

Ch-3- Water Resources

5. Draw a physical map of India and locate the major Rivers and Dams of India.

SUBJECT TEACHER :_____ **HOD:**_____

ECONOMICS

Chapters covered-

Ch 1- Development

Ch-2- Sectors of Indian Economy

ECONOMICS H.H W

Chapter-1 Development

1. Make a project on why sustainability important for development.
2. Write the criterion used by the UNDP for classifying countries.
3. Give examples to prove that there are other important developmental goals than income/material goods.

Chapter-2 Sectors of Indian Economy

1. What are the different sectors of economy? Give examples.
2. What is GDP and how is it calculated?

SOCIAL SCIENCE PROJECT WORK

Students have to undertake the following projects as per their assigned Roll no. individually.

1. **Disaster Management(Pertaining to class x curriculum of Disaster management only.)(R.No. 1-15) . Choose any one topic.**
   a. Earthquake
   b. Cyclones
   c. Flood
   d. Drought

OR

2. **Popular Struggles and Movements.(R.no 16-30).**
   a) Bolivia's WaterWar
   b) Public Interest Groups, Sectional interest groups
   c) Restoration of democracy in Nepal.

OR

3. **Money and Credit.(R.no 31-45) .**
   a. Modern form of money
   b. Loans by Formal and Informal sector- Advantages \ Disadvantages

Different aspects related to project work:

1. **Index**
2. **Preface**
3. **Content**
4. **Presentation and creativity.**
5. **Conclusion**
6. **Bibliography**

Note:

1. **To use Eco friendly products.**
2. **It should be hand written.**
3. **It should not be more than 15 foolscap pages.**
4. **To prepare for Viva also.**

SUBJECT TEACHER :_____ **HOD:_____**

ART & CRAFT

- 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 (A4 Size Card) (Pg. 101)

  2. Make a folder A3 Size. Decorate it with Quilling.

SUBJECT TEACHER :_____ **HOD:_____**

LIBRARY

SUGGESTED READING

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

SUBJECT TEACHER :_____ **HOD:**_____