MATHS CLASS-X

SUMMER VACATION HOME Assignment

THE PROPERTY SOLD STREET, STATE SAME TO STATE OF THE PARTY OF THE PART Q.(1) Find the LCH and HCF of the following numbers 9 12, 21, 15. 180, 288, 144 © 84, 90, 120 a) 24, 15,36. Q.(2) criven that MCF (306,657) = 9, find LCM (306,65) a (3) Find the HCF of 96 and 404 by prime factorisati method. Hence find their LCM, Q(4) The LCH and HCF of two numbers are 180 and respectively. If one of the numbers is 30, find the som other numbers all prices bus statemented Q(5) Find the smallest number that, when divided by 35, 56 and 91 leaves remainders 7 in each case. Q(6) Find the greatest number of six digits weich is exactly divisible by 24, 15, 36. Q(7) Find the largest number that divides 2053 and 967 and leaves a remainder of 5 and 7 respectively a (8) Prove that 15 is irrational number. Q91 Determine the values of pand q so that the prime factorisation of 2520 is expressible as 23 x 38 x 2 x 7 a (10) Three numbers are in the ratio 2:5:7. Their LCM is 490. Find the square root of the largest number. a (11) Explain way 7x11x13+13 and 7x6 x5 x4 x3 x2x +5 are composite numbers

Q(2) check whether 6th can end with the digit

ofor any natural number n.

PTO

FRANKER SACREMENT HORIZOR ACEDORINGE Q(13) Show that following numbers are irrationals. B 3+ 12 (0) 4-5/2 (d) 5+352 5-2/3 Q(14) write whether 2 145 + 3120 gives arational or 2 15 on simplification an irrational number. Q (15) Find the zeroes of the following quadratic polynomials and verify the relationship between zeroes and coefficients. N2+7× +12 442+ 84 Q 453 n2 + 5x -253 (F) V3 n + 10 x + 7 13. a (16) 95 & and B are the zeroes of the quadratic polynomial peny = an +bx+c then evaluate.

(a) $\chi^2 + \beta^2$ (b) $\chi^2 + \beta^2$ (c) $\frac{\chi}{\beta} + \frac{\beta}{\lambda}$.

(b) $\frac{\chi}{\beta} + \frac{\beta}{\lambda}$ (c) $\frac{\chi}{\beta} + \frac{\beta}{\lambda}$.

(c) $\frac{\chi}{\beta} + \frac{\beta}{\lambda}$ (d) $\frac{\chi}{\beta} + \frac{\beta}{\lambda}$.

(d) $\frac{\chi}{\beta} + \frac{\beta}{\lambda}$ (e) $\frac{\chi}{\beta} + \frac{\beta}{\lambda}$. a (18) 95 & and B are the zeroes of bolynomial 4n2-5n-1. find the value of 2B+2B2. a company to the sample of the

a (19) Find a quadratic polynomial whose sum and esproduct are given months at the (a) \(\frac{21}{8} \), \(\frac{5}{16} \) (b) \(-2\bar{13} \), \(-9 \) (c) \(\frac{1}{4} \), \(-1 \) Q.(20) solve the following system of equations graphically . The state of the 1 10132 has 1 21+34 = 6 8/8 Biold 10100 No 6/10 15 13419VA TURNER SUZN-34 = 12+ 30 = 11 30 110 30 110 110 (FS) Q(21) Solve the system of linear equations graphically thinks 18 13-2x-y-4=0 and 21+4+1=0 " " delighted find the points where the lines meet y-quis. Q(22) Draw the graphs of 2x+y=6,2x-y+2=6 Shade the region bounded by these lines and x-anis. find the grea of shaded region. a (23) solve graphically. 21,000 270 12x (=1341=13 21 380 2 valled 201 (PE) equations. 6) 11x +15y +23 =0, 7x-2y-20=0 0.7x-0.2y=0.8 $\sqrt{2}x-\sqrt{3}y=0$ 60 0.4x +013 4 =1.7 24 - 18 4 = 6 MM . 2 MM 21 - 1 4 3 - 14 4 15 MM (e) 992 + 101y = 499 101x +994 = 501

PTO

a (25) 9f we add 1 to the numerator and sustract I from the denominator, a fraction reduces to 1. 9t becomes 1 if we only add 1 to the denominator, what is the fraction ? a (26) Five years ago, Nuri was thrice as old as Sonu. Ten years later, Muri will be twice as old as sony. How old are Nuri and sony 9 Q (27) The sum of the digits of a two-digit number is 9. Also, nime times this number is twice the number obtained by reversing the order of digits . Find the hymber is the state of the a (28) Heena went to a bank to withdraw & 2000. she asked the eaghier to give her 7 50 an F 100 notes only. Meena got 25 notes in all. Find how many notes of \$ 50 and \$ 10 She recieved. Q (29) The father is age is six times of his souls age. Four years hence the age of the father will be four times of his sours age. find the present ages of son and father. (30) A and B are two points. 150 km apart on a highway. Two cars start from A and B at the same time. If they move in the same direction they meet in 15 hours. But if they move in the opposite directions, they meet in one hour. find their speeds.

	Class-10 Biology
	Summer Vacation Home Assignment
3.1	What is common for cuscula, ticks and leech?
(9.2)	Plants have low energy needs as compared to animals. Explain.
(3.3)	Why is small intestine in herbivores longer than that in counivores?
9.4	What is Saliva ? State its role in digestion.
9.5>	What is the role of HCI and mucus in stomach?
9-6)	List the role of the following in the digestive system of human beings -
i> v>	List the role of the following in the digestive system of human beings - Trypsin ii) Amylase iii) Pepsin iy Lipase Muscular wall of stomach iii) Villi
9.7)	How does Paramoecium obtain its food?
9.8)	Why is the rate of breathing in aquatic organisms much faster than in termestrial organisms.
(p. Q.	Draw and label - i) Human respiratory system. Human Heart system iii) Human Excretory system
9.10)	Draw and label a schematic representation of transport and exchange of oxygen and CO2 in human beings.

- 1

34

SUMMER VACATION H.A. - 2024 CLASS-X PHYSICS

- 1. On the A-4 sheets draw the clean ray diagrams of the image formed by a concare and convex misser and illownex and concare lenses. Prepare a file.
- 2. Where should an object be place in bront of a convex lens to get the image on the screen placed at the distance of 60 cm with magnification -2. Also find the focal length of the lens.
- 3. Write the Sign conventions on the A-4 sheet, and attach it to a file.
- 4. The reforctione index of the water is 4 and glass is 3 what is the speed of light in water and in glass? If the speed of light in vacuum is 3 × 108 m/s 9
- So, The refractive index of diamond is 2:42 what is the speed of light in the diamond it the speed of light in air is 3×100 m/s:
 - 6. A lens produces the magnification +2 and -2 respection very, which type of the lens is possible for this case?
- 7. White the uses of (a) concare and convex multiers,
- 8. An object of size locm is placed at 40 cm away from a concare mirror of focal length 16 cm. Find the nature size and position of image by viry mirror formula
- 9. Define-Principal focus of a connex lens and concarelens. 10. State the Laws of refraction of light.

Summer Vacation H.W Sub: Chemistry

Q1. When Basium chloride solution reacts with Aliminium sulphate solution identify the product in solid state (a). Barium chloride d). Barium Sulphate (c) Aluminium chloride (d) Aluminium sulphate. 22. In order to balance # following chemical equation, the values of the coeficients x and y respectively are;

2 Pb (NO₃) heat > 2PbO + y NO₂ + O₂

(a) 2,4

(b) 2,2

(c) 2,3

(d) 4,2 23. Assertion - The colour of aqueous solution of copper sulphate:
colourfess when a piece of lead is added to it.

Reason-head is more wentive than copper and hence
displaces copper from its salt solution Qy. I dentify the type of reaction mentioned above in

(i) and (ii). Give one example force cach type in the form

of balanced chemical equation. $A + (BC) \rightarrow AC) + (B)$ (AB) + (BD) (AC) + (BD) Q5. Silver chloride Kept un a China dish turns grey in sunlight.

(a). Write the colour of silver chionide when it was kept in

tell he chart for (b) Name the type of chemical reaction taking place and write chemical equation for the reaction.

(c) State one use of the reaction Name one more chemic which can be used for the same purpose.

(d) When Copper pourles is thereford in a watch glass, a black substance is formed. (i) Why is this black substance formed? Name it.

(ii) How can this black substance be reversed to its original form?

O 7(a) I dentify the redering agent in the following reactions

(i) 4NH2 + 502 -> 4NO + 6H2O. (i) H20 + F2 -> HF + HOF Ol) Fe, 03 + 300 -> 2 Fe + 300, Define a redox reaction in terms of gain or loss of oxygen. (iv) 2H2 + O2 -) 2H2O Abort allowed Kept in a Charle disk there igning it the dealer of others absent to make it was trust in

DAV Sr. sec. Public School Thinguedah project.

Vacation Homework

Class & Subject English.

Divite an interview neith Nicola and Jacopo.

You are the narrator. (2) War destroys but strengthene human values i needed. (3) Creale 3D visual representation of key scenes or may from the ch-1 and the poens. (a) Write the poem with the Nightingale is strong an confident and she snubs the frog. 5) Write a diary entry on daily basis, How you spend gadget free time for self-development? Ako write about a new skill you have learnt during vacation.

क्षा दसवीं जीकावनाश हैत गृह कार्य प्रथमन रचना के आधार पर नावय के भेद्र सिविस । निम्नालिखित वाक्यों का रचनान्तरण की जिस् । 927-2 क - हम आपकी जानने वाले सव लोगों से मिले। (मिन्नुवाबय में) ख - तुम जाते ही या भे तुम्हरी क्रीकायत कर्छ । (सरल वमयमें) गः वसीत की राम सुबाह राम कीयान में मुहू - मुहू का स्वर दिया था। प्रथन-3 वाच्या विसी कहते हैं ? वाच्या की बिल्ही भेद हीते हैं ? उदाहरण सहित लिखी। प्रथम-4 निम्नानिखित का बान्य परिवर्तन की छीए। क मोहन बाजार जाता है। (बर्म बान्य में) ख तारे आसमान में न्यमक रहे हैं। ट्याव बान्य में) ठा. ज्ञातबारीं द्वारा जीतीं की सुर दियाजाता है। (कर्तृवाच्य में) य- फुरसत में में जूब रियाज करता हूँ। (कर्मवाच्य में) ड०-उसने चाना जाया। (वान्यमें वनाइस) प्रथम-5 संज्ञा, सर्वनामा, विशेषण, क्रिया, क्रियाविशेषण, समु च्चय वैत्यक अव्यय संबंध बैद्यक अवाय , विस्मयादि बोधक अव्यय का भेंद्र एवं परिभाषा लिखिए। प्रथम-६ निम्मालियोग् गाय्यों में वैष्वांकित पदीं का पद परिचयकी जिस । क - वह अपने धर जया। क - फागून मास में बसंत कत होती है। बोहा तेज भागता है। पुरन र उपमा ,रुपक, उत्पेका अतिरायो क्ति मानवीकरण अलंकार की परिभाषा रुवं उदाहरण लिखिस् । प्रथम-८. निम्नाला द्वित पर अनुन्देषु लिप्विस (क) जनसंख्या विस्फोट 🖾) साहित्य समाज का दर्पण (I) गुरु-वीष्य संबंध प्रथम-९ बिजानी संकर से उत्पन्न समस्या की ओर ध्यान आकृष्य करते हुए अधिवासी अभियन्ता की पत्र लिथिए। प्रमाण सहायक अध्यापक पद के लिए स्ववृत सेयार कीजिए। प्रयम्। मित्र की जन्म दिन पर बधाई संदेश लिखिए।

DAV Sr.Secondary Public School, Jhingurdah, Singrauli(MP) Holiday Homework

Class: X Subject: Social Science

Section-A(Short Answer type questions)

- I- What led to the ethnic tension in Belgium ?Why was it more acute in Brussels ?
- II- Describe any Three majoritarian measures taken by the Sri Lankan government to establish Sinhala supremacy.
- III- Explain any two sets of reasons as why power sharing is desirable.
- IV- Differentiate between vertical and horizontal power sharing in modern democracies.
- V- Explain any three features of the 'Nation States' that emerged in Europe in the twentieth Century.
- **VI-** How did the ideas of French Revolution spread in other parts of Europe?
- VII- State any three provisions of the civil code of 1804.
- VIII- 'Nationalism no longer retained it's idealistic, liberal, democratic sentiments by the lastquarter of the 19 th century in Europe'. Analyse the statement with examples.
- **IX-** 'Development for one may be the destruction for other.Do you agree with the statement? Justify your answer.
- X- Consequences of environmental degradation do not respect national or state boundaries '.Justify the given statement.
- XI- 'While average income is useful for comparison, but it may hide disparities.' Discuss.
- XII- Differentiate between Human Development Report and World Development Report.
- **XIII-** Why is Sustainable development essential for economic growth?
- XIV- Describe the different steps of 'resource planning'.
- XV- 'Indiscriminate use of resources has led to numerous problems'. Justify the statement.
- **XVI-** Explain any three characteristics of black soil.

XVII- Distinguish between 'Bangar and Khadar'.

Long Answer type questions.

- I- Distinguish between red and laterite soils stating five points of distinction.
- II- What are resources? Explain any four factors for resource development in India.

- III- How did female figures become an allegory of the nation during the 19 th century in Europe.?
- IV- Describe the process of Unification of Italy.
- V- Describe any Three demands of the Sri Lankan Tamils .How did they struggle for their Demands.
- VI- Why power sharing is desirable?
- VII- Describe any five conditions or aspects that you would consider before accepting a job.
- VIII- Differentiate between Human Development Report and World Development Report.

Map activity based questions.

1-identify the types of soil in the given political outline map of India.

