Holiday Homework

Subject-English

1. Revise all chapters(Beehive) taught during online classes.

2 Write articles on any two(180words each)of the following.

A) Migrant problems in India during the lockdown

B) Digital learning - merits and demerits

C) Laughter is the best medicine.

3) Write a letter to the editor of a newspaper expressing your pleasure over a

drastic change in environment during the lockdown period.(in120 words)

4) Prepare a speech(video as well as class presentation) on the topic 'Social

distancing is the need of the hour'.(4-5 mts).

ग्रीष्मावकाश गृह कार्य

कक्षा—9

2-2बीरबल और तेनालीराम की कहानियाँ लिखो।

कक्षा में पढ़ाऐ गये अलंक्षार से उदाहरण लिखें ।

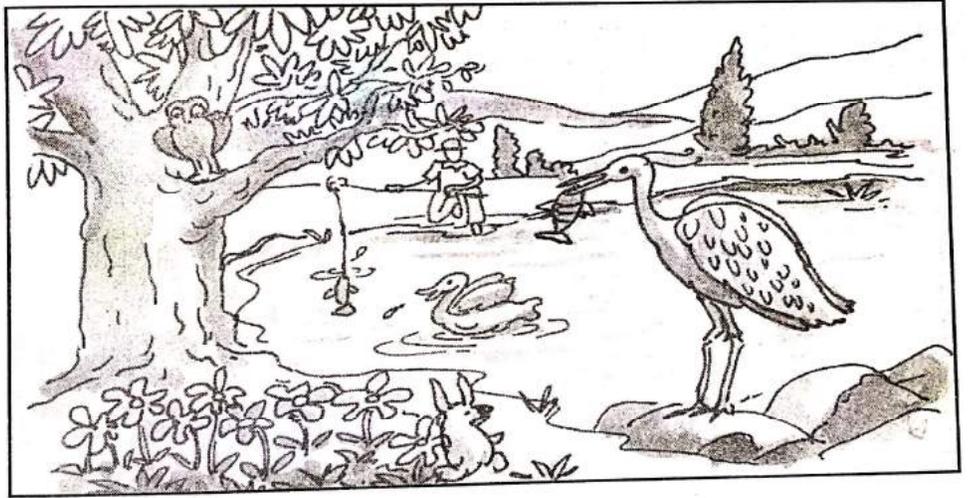दो बैलों की कथा, ल्हासा की ओर और कबीरदास के प्रश्नोत्तर लिखो

1. शेमुषी पठित पाठस्य प्रश्नोत्तराणि लिखन्तु–
   पाठ–2 स्वर्णकाकस्य प्रश्न संख्या (1–7),
   पाठ–4 कल्पतरुः प्रश्न संख्या (1–7)
   पाठ–5 सूक्तिमौक्तिकम् प्रश्न संख्या (1, 2, 5, 6, 7)
2. शब्दरुपाणि लिखन्तु – (बालक,लता,साधु,नदी,मातृ,पितृ, अस्मद् ,युष्मद्)
3. धातुरुपाणि लिखन्तु –(पठ् ,गम् , वद् , भू) –पंच लकारेषु ,(सेव् ,लभ)–लट् ,
   एवं लृट् लकारे लिखत?
4. उपसर्गान् संयोज्य पदानि लिखन्तु– (आ,वि,प्रति,अनु,उप,निर्,प्र,अधि,अप)
5. संख्या (1–4)प्रथमा विभक्तौ त्रिषु लिंगेषु लिखन्तु ?
6. संधि विच्छेदं कुरुत– परार्थः;महीशः;गंगोदकम् , महर्षिः, मध्वालापः;गत्यर्थकः, सदैव,
   महौजसः।
7. प्रकृति प्रत्यय विभज्य लिखत– गच्छन् , सेवमानः, रचितवान् , पठितम्, द्रष्टुम् ।
8. चित्राणि दृष्ट्वा प्रदत्त पदैः सह पंच वाक्यानि लिखत–

2. मञ्जूषायाः शब्दान् नीत्वा चित्रस्य वर्णनम् पञ्चसुवाक्येषु कुरुत।
(मञ्जूषा से शब्दों को लेकर चित्र का वर्णन पाँच वाक्यों में कीजिए।)
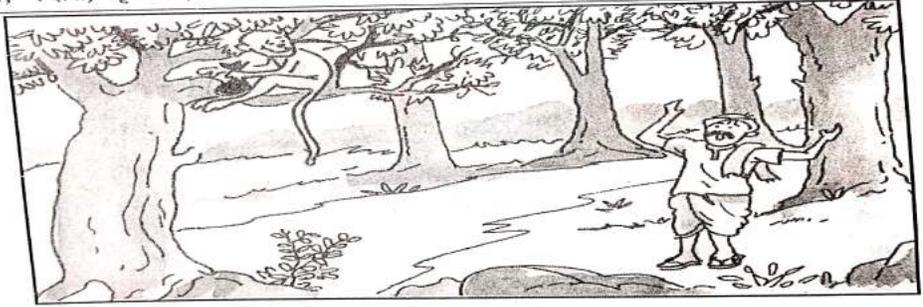(Write the description of the picture in five sentences taking words from the box.)

| मञ्जूषा—उल्लूकः, खगाः, वर्तकः, तरति, तीरे, भ्रमराः, पुरुषः, सरोवरे, पुष्पाणि, मत्स्याः । |

1. एतच्चित्रं सरस्तीरस्य वर्तते ।
2. एकः वर्तकः जले तरति ।
3. वृक्षस्य उपरि एकः उलूकः तिष्ठति ।
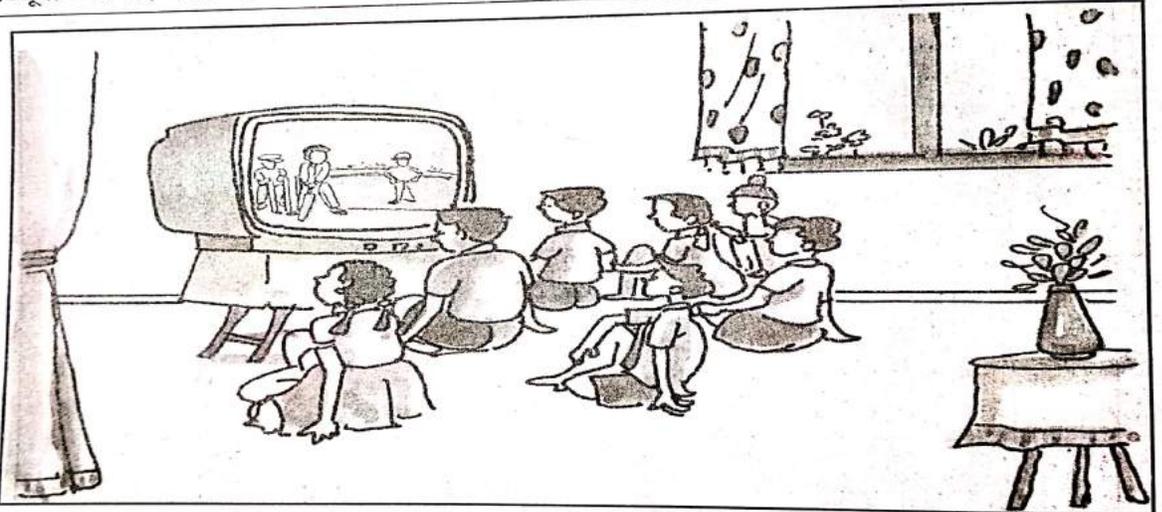4. एकः बकः मत्स्यं खादति ।
5. सरस्तीरे एकः जनः उपतिष्ठति ।

मञ्जूषायाः शब्दान् नीत्वा चित्रस्य वर्णनम् पञ्चवाक्येषु कुरुत।
(मञ्जूषा से शब्दों को लेकर चित्र का वर्णन पाँच वाक्यों में कीजिए।)
(Describe the picture in five sentences taking words from the box.)

मञ्जूषा—वृक्षाः, वदति, शृणोति, अधः, हस्ते, वानरः, शाखायाम्, हस्तौ, खादति, उपतिष्ठति।

3. मञ्जूषायाः शब्दान् नीत्वा चित्रस्य वर्णनम् पञ्चसुवाक्येषु कुरुत।
(मञ्जूषा के शब्दों को लेकर चित्र का वर्णन पाँच वाक्यों में कीजिए।)
(Taking suitable words from the box, describe the picture in five sentences.)

मञ्जूषा—अनेके, यवनिका, क्रीडकाः, बालिकाः, दूरदर्शनम्, पश्यन्ति, क्रिकेटम्, कक्षः, सुसज्जितः, अस्ति।

4. मञ्जूषायाः सहायतया चित्रस्य वर्णनम् पञ्चवाक्येषु कुरुत। २
(मञ्जूषा की सहायता से चित्र का वर्णन पाँच वाक्यों में कीजिए।)
(Describe the picture in five sentences with the help of the box.)

मञ्जूषा—उपवनस्य, बालकाः, बालिकाः, पुष्पाणि, विकसन्ति, उद्याने, भ्रमणम्, कर्त्तव्यम्, स्वास्थ्यप्रदम्, हसन्ति।

1) Express $\frac{5}{13}$ in the decimal form.

2) Find 5 rational numbers between $\frac{1}{4}$ and $\frac{3}{5}$.

3) If $x = 2 + \sqrt{3}$, find the value of $x^2 + \frac{1}{x^2}$.

4) Represent $\sqrt{5}$ on the number line.

5) Find K, if $p(x) = kx^3 + 9x^2 + 4x - 10$ is divided by $(x-3)$ leaves remainder -22.

6) If $a + b = 10$, $ab = 16$, find the value of $a^3 + b^3$.

7) If $a + b\sqrt{15} = \frac{\sqrt{5} + \sqrt{3}}{\sqrt{5} - \sqrt{3}}$, find the value of a & b.

8) Factorise :- $7(x - 2y)^2 - 25(x - 2y) + 12$

9) Factorise :- $2x^3 - 3x^2 - 17x + 30$

10) Find the value of m and n so that $p(x) = x^3 - mx^2 - 13x + n$ has $(x-1)$ & $(x+3)$ as factors.

11) Find $p(1)$, $p(2)$ and $p(-1)$ if $p(x) = 3x^3 - 4x^2 - 7x - 5$.

12) If $z^2 + \frac{1}{z^2} = 14$, find the value of $z^3 + \frac{1}{z^3}$.

13) Check that $(-2, 3)$ is a solution of $\frac{x}{2} + \frac{y}{3} = 0$ or not?

14) If $(a, 2)$ lies on the graph of equation $2x - 3y + 8 = 0$ find the value of 'a'.

15) Draw the graph of the equation $x - 2 = 3y - 9$.

16) Find 3 solutions of the equation $2x + 3y = 10$.

17) Find the perimeter of an isosceles right triangle having an area of 200 cm^2.

18) The perimeter of a triangular field is 450 m. and its sides are in the ratio $13 : 12 : 5$. Find its area

—X—

Q1. Distinguish between speed and velocity.

Q2. During an experiment a signal from a spaceship ground station in 5 minutes what was the distance of the space from the ground station the signal Travels at the speed of light that is 3×10^8 m/s.

Q3. Odometer of a car reads 2000 km at the start of a trip and 2400 km at the end of the day to calculate the speed of the car in km/hr and m/s.

Q4. Usha swims in a 90 m long pool. She covers 180 m in one minute by swimming from one end to the other and back along the same straight path. Find the average speed and average velocity of Usha

Q5. Starting from a stationary position, Rahul paddles his bicycle to attain a velocity of 6 m s–1 in 30 s. Then he applies brakes such that the velocity of the bicycle comes down to 4 m s-1 in the next 5 s. Calculate the acceleration of the bicycle in both the cases.

Q6. A bus starting from rest moves with a uniform acceleration of 0.1 m s-2 for 2 minutes. Find (a) the speed acquired, (b) the distance travelled.

Q7. A train is travelling at a speed of 90 km/h brakes are applied so as to produce a uniform acceleration of -0.5 m/sfind how far the train will go before it is brought to rest?

Q8. Give one example of situation in which velocity is zero while speed is non zero.

Q9. A car travels 10 metre in 5 seconds, 20 metre in next 10 seconds and 30m in last 10sec Find the average speed ?

Q10. Derive the equation of motion $v^2=u^2+2as$ graphically from a graph v-t graph

Q11. A scooter travelling at 10 m/s speed up to 20 m/s in 4 sec. Find the acceleration of scooter.

Q12. State newton's third law of motion.

Q13. What is momentum? Give its SI unit.

Q14. Why does a gun recoil .

Q15. Give two ways to reduce friction.
Q16. Is force a vector or a scalar ?

Q17. Why do action and reaction not cancel each other?

Q18. State the universal law of gravitation ?

Q19. What is upthrust? How is it related to acceleration due to gravity ?

Q20. Distinguish between mass and weight.

Q21. How does the acceleration due to gravity vary with height ?

Q22. Why does g increases as we move from the equator to the poles ?

Q23. What is the principle behind the working of a rocket ?

Q24. A ball hits a wall horizontally at 6m/s. It rebounds horizontally at 4.4m/s. The ball is in contact with the wall for 0.04s. What is the acceleration of the ball?

Q25. A police jeep is chasing velocity of 45 km/h. A thief in another jeep moving with a velocity of 153 km/h. police fires a bullet with muzzle velocity of 180 m/s the velocity it will strike the car of the thief is?

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HOLIDAY HOMEWORK
CLASS-IX
CHEMISTRY

Q1.   What is matter? What is matter made up of?

Q2.   With the help of a labelled diagram describe an activity to show that matter is made up of very tiny particles.

Q3.   What are the characteristics of particles of matter?

Q4.   Define the following terms:

(a)   Diffusion   (b)   Fluidity   (c)   Density   (d)   Latent heat of fusion

(e)   Latent heat of vaporization

Q5.   Give reasons for the following:-

(a)   Smell of hot sizzling food reaches us several meters away but to take the smell of cold food we have to go near to it.

(b)   Ice is a solid but it floats on water.

(c)   Gases exert pressure on the walls of the vessel in which it is kept.

(d)   Sugar disappears when dissolved in water.

(e)   The temperature of a substance does not rise during the change of state.

(f)   Ice at 273K causes more cooling than water at the same temperature.

(g)   Steam at 373K causes more burns than water at same temperature.

(h)   Water kept in earthen pots becomes cool during hot summer.

(i)   Rate of evaporation increases with temperature.

(j)   It is easy to sip hot tea from a saucer rather than a cup.

Q6.   What is evaporation? Give differences between evaporation and boiling.

Q7.   How does rate of evaporation depend on-

(a)   Area of exposed surface   (b)   Humidity   (c)   Wind speed   .

1. Draw coloured and labelled diagram of plant cell and animal cell as given in the NCERT book of class 9th.

2. a. How mitosis is different from meiosis.

b. Write the significance of mitosis and meiosis.

3. Where do you see apical Meristem Lateral Meristem and intercalary meristems in plant . Draw a diagram of plant indicating the location of apical Meristem Lateral Meristem and intercalary Meristem As given in the NCERT book class 9.

4. Water hyacinth floats on water surface .Explain.

5. Name the type of epithelial tissue that lines .

a. oesophagus

b. respiratory tract

c. kidney tubules

d inner lining of intestine

e. blood vessels.

Holiday Homework

<u>Class IX</u>

(History/Civics)

1. Learn the Notes of the Chapter **What is Democracy**
2. Learn the Notes of the Chapter **The French Revolution**
3. Do the Exercise question answer of the chapter **Constitutional Design**

Geography.

1. Write and remember the q/a of the first two chapters.

Economics

1. Define :-

i) Physical Capital

ii) Fixed Capital

iii) Green Revolution

iv) HYV Seeds

v) Important factors of production

vi) Yield

2. What are the ill effects of Green Revolution ?

3. State three reasons of the variation in the wages of farm labourers all over India .

4. Explain any three efforts which can be made to increase non – farming production activities in villages.

5. Make a project on a chart paper by drawing and colouring different type of non-farm production activities in village Palampur.

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Summer Holiday Home work

Class-IX

Q1. What is a computer? Write about the various **Characteristics of computer**

Q2.Expain about **Basic Components Of Computer System**.

Q3.Explain with examples about the various **Input/ Output devices**.

Q4.Explain about Primary **and secondary memory** with examples.

(As given in class notes)

Q5.Write about the various **Storage devices.**

Q6. What are software? Explain about the **various types of softwares** like System Software, Application Software, Device Drivers and utilities(Including various types of utilities)

Q7.Write about **mobile application softwares.**

Q8. What do you understand by **Computer Networking**? Explain about the various types of Networking.

Q9. Explain about the various types of **wired** and **wireless** communication technology.

Q10.What do you understand by **cloud computers**? What is the difference between **public and private cloud service**.