

SUMMER VACATION HOME WORK 2020

**ENGLISH**

**CLASS - IX**

1. Write a Film Review of any movie that you have watched.
2. Write a biography/ biosketch of your favourite personality in 120-150 words. Write how she/ he inspires you.
3. Compose a poem of 8 lines on any element of nature (for e.g. the air)[ It could be a free verse or you could give it a rhyme scheme.]
4. Write a Article in 150-200 words on how spend the time during the lock down period in a fruitful manner.
5. Write a Diary Entry in 150-200 words on how you observed Parents' Day at home.

## केवीएस बागडोगरा

कक्षा - नवी

ग्रीष्मकालीन गृह कार्य

विषय हिंदी

निम्नलिखित गद्यांश को पढ़कर नीचे दिए गए प्रश्नों के उत्तर दीजिए:

1 जानवरों में गधा सबसे ज्यादा बुद्धिहीन समझा जाता है। हम जब किसी आदमी को परले दरजे का बेवकूफ़ कहना चाहते हैं, तो उसे गधा कहते हैं। गधा सचमुच बेवकूफ़ है, या उसके। सीधेपन, उसकी निरापद सहिष्णुता ने उसे यह पदवी दे दी है, इसका निश्चय नहीं किया जा सकता। गायें सींग मारती हैं, ब्याई हुई गाय तो। अनायास ही सिंहनी का रूप धारण कर लेती है। कुत्ता भी बहुत गरीब जानवर है, लेकिन कभी-कभी उसे भी। क्रोध आ ही जाता है, किंतु गधे को कभी क्रोध करते नहीं सुना, न देखा। जितना चाहो गरीब को मारो, चाहे जैसी खराब, सड़ी हुई घास सामने डाल दो, उसके चेहरे पर कभी असंतोष की। छाया भी न दिखाई देगी। वैशाख में चाहे एकाध बार कुलेल कर लेता हो; पर हमने तो उसे कभी खुश होते नहीं देखा। उसके। चेहरे पर एक विषाद स्थायी रूप से छाया रहता है। सुख-दुख, हानि-लाभ, किसी भी दशा में उसे बदलते नहीं देखा। ऋषियों- मुनियों के जितने गुण हैं वे सभी उसमें पराकाष्ठा को पहुँच गए हैं, पर आदमी उसे बेवकूफ़ कहता है।

प्रश्न

(क) ऋषि-मुनियों तथा गधे में क्या समानता देखी गई है?

(ख) किसी आदमी को गधा कहने का क्या अर्थ है?

(ग) गधे को बुद्धिहीन क्यों माना जाता है?

2. देखिए न, भारतवासियों की अफ्रीका में क्या दुर्दशा हो रही। है? क्यों अमरीका में उन्हें घुसने नहीं दिया जाता? बेचारे शराब नहीं पीते, चार पैसे कुसमय के लिए बचाकर रखते हैं, जी। तोड़कर काम करते हैं, किसी से लड़ाईझगड़ा नहीं करते, चार बातें सुनकर गम खा जाते हैं फिर भी बदनाम हैं। कहा जाता है, वे जीवन के आदर्श को नीचा करते हैं। अगर वे भी ईट का जवाब पत्थर से देना

सीख जाते तो शायद गधे से नीचा है। सभ्य कहलाने लगते । जापान की मिसाल सामने है। एक ही विजय ने उसे संसार की सभ्य जातियों में गण्य बना दिया। लेकिन गधे का एक छोटा भाई और भी है, जो उससे कम ही। गधा है, और वह है 'बैल'। जिस अर्थ में हम गधे का प्रयोग करते हैं, कुछ उसी से मिलते-जुलते अर्थ में बछिया के ताऊ का भी प्रयोग करते हैं। कुछ लोग जैल को शायद बेवकूफों में सर्वश्रेष्ठ कहेंगे; मगर हमारा विचार ऐसा नहीं है। बैल कभी-कभी मारता भी है, कभी-कभी अड़ियल बैल भी देखने में आता है। और भी कई रीतियों से अपना असंतोष प्रकट कर देता है, अतएव उसका स्थान गधे से नीचा है।

प्रश्न

(क) 'बछिया का ताऊ' किसे कहा जाता है?

(ख) बैल को गधे का छोटा भाई क्यों कहा गया है?

(ग) भारतवासियों को अमेरिका में क्यों घुसने नहीं दिया जाता था?

3. नौजवान के पानी में उतरते ही कुत्ता भी पानी में कूद गया। दोनों ने किन भावनाओं के वशीभूत होकर ऐसा किया?

4. किसी भी व्यक्ति की पहचान उसके कुल से होती है उसके कर्मों से तर्क सहित उत्तर दीजिए ? कबीर की साखियां पाठ के आधार पर ।

5. मनुष्य ईश्वर को कहां-कहां ढूंढता फिरता है ?

6. कबीर दास जी के अनुसार ज्ञान की आंधी का भक्त के जीवन पर क्या प्रभाव पड़ता है ?

7. कहानी ( दो बैलों की कथा) में बैलों के माध्यम से कौन-कौन से नीति-विषयक मूल्य उभरकर आए हैं ?

8. हीरा और मोती में गहरी दोस्ती थी कहानी के आधार पर स्पष्ट कीजिए ?

9. नौजवान और कुत्तों के व्यवहार को देखकर आपको किन जीवन मूल्यों को अपनाने की प्रेरणा मिलती है ? इस जल प्रलय में पाठ के आधार पर बताइए।

10. प्राकृतिक आपदाओं से निपटने के लिए कुछ सुझाव दीजिए जो प्राथमिक हैं ?

11. आपके क्षेत्र में वनों की अवैध रूप से कटाई की जा रही है वन विभाग के अधिकारी को इस समस्या से अवगत कराने के लिए पत्र लिखिए।

12. उपसर्ग किसे कहते हैं ?

13. प्रत्यय किसे कहते हैं ? निम्नलिखित प्रत्यय से दो दो शब्द बनाइए शब्द बनाइए ।

य, इक, वाला, दार,

14. निम्नलिखित शब्दों के उपसर्ग मूल शब्द और प्रत्यय छांट कर अलग कीजिए ?

1. साहित्यिकी

2. प्रौद्योगिकी

3. अनैच्छिक

4. अनैतिहासिक

5. औपचारिकता

6. औपनिवेशिक

7. औपन्यासिकता

8. अनैश्वर्य

9. व्यावहारिक

10. स्वैच्छिक

**KV AFS BAGDOGRA**  
**SUMMER VACATION HOMEWORK**  
**CLASS IX (MATHS)**


**Class : IX      Subject : Mathematics      Assignment 1: Number System**

1. Explain each of the following in  $\frac{p}{q}$  form:
  - (i)  $0.675$  (ii)  $0.3\bar{2}$  (iii)  $0.12\bar{3}$       (iv)  $0.003\bar{52}$       (v)  $4.\bar{32}$  (vi)  $2.317317317\dots$
2. Find two irrational numbers and two rational numbers between 0.5 and 0.55
3. Simplify each of the following by rationalizing the denominator.
  - (i)  $\frac{7+3\sqrt{5}}{7-3\sqrt{5}}$       (ii)  $\frac{2\sqrt{3}-\sqrt{5}}{2\sqrt{2}+3\sqrt{3}}$       (iii)  $\frac{7\sqrt{3}-5\sqrt{2}}{\sqrt{48}+\sqrt{18}}$
4. Simplify:- a)  $3\sqrt{5} + -\sqrt{5} + \sqrt{180}$       (b)  $\sqrt{54} + \sqrt{150}$
5. Give an example each of two irrational numbers, whose
  - (i) difference is a rational number      (v) product is a rational number
  - (ii) difference is an irrational number      (vi) product is an irrational number
  - (iii) sum is a rational number      (vii) quotient is a rational number
  - (iv) sum is an irrational number      (viii) quotient is an irrational number
6. Without actual division decide which of following rational numbers have terminating decimal representation:-
  - (i)  $\frac{33}{375}$       (ii)  $\frac{15}{28}$       (iii)  $\frac{16}{45}$       (iv)  $\frac{12}{35}$       (v)  $\frac{80}{27}$       (vi)  $\frac{123}{1250}$
7. Examine whether the following numbers are rational or irrational
  - (i)  $\frac{3\sqrt{8}}{\sqrt{2}}$       (ii)  $\left(\sqrt{2} + \frac{1}{2}\right)^2$       (iii)  $\frac{22}{5\pi}$       (iv)  $(3 + \sqrt{2})(2 - \sqrt{3})(5 - \sqrt{2})$   
 $(2 + \sqrt{3})$
8. Represent  $\frac{8}{5}$  and  $\sqrt{20}$  on a number line.
9. (a) Represent  $\sqrt{5.2}$  on a number line.      (b) Visualize 0.436 on the number line
10. Insert 6 rational numbers between  $-\frac{2}{3}$  and  $\frac{3}{4}$
11. Find two irrational numbers between  $\sqrt{3}$  and 2.
12. Rationalise the denominator of  $\frac{1}{1-\sqrt{7}}$
13. Given  $\sqrt{3} = 1.732$  app., find to three places of decimal the value of  $\frac{1+2\sqrt{3}}{2-\sqrt{3}}$
14. Find the values of 'a' and 'b' if
  - (a)  $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a + b\sqrt{3}$       (b)  $\frac{5+\sqrt{3}}{\sqrt{5}-\sqrt{3}} = \frac{1}{2}a + 3b\sqrt{15}$
15. Simplify:- (a)  $\frac{3}{\sqrt{5}-\sqrt{3}}$       (b)  $\frac{2\sqrt{7}}{\sqrt{5}+\sqrt{3}}$
16. Evaluate:- a)  $(390625|6561)^{1/2}$       (b)  $(1296)^{1/4} \times (1296)^{1/2}$

**Class : IX Subject : Mathematics Assignment 2: Polynomials**

- If two polynomials  $ax^3 + 4x^2 + 3x - 4$  &  $x^3 - 4x + a$  leave the same remainder when divided by  $(x - 3)$ , find the value of  $a$ .
- Evaluate using identities:- (a)  $103 \times 97$  (b)  $(0.99)^2$  (c)  $108^3$
- Find the remainder when  $4x^3 - 3x^2 - 2x - 4$  is divided by  $x + 2$ .
- Show that  $(x - 1)$  is a factor of  $x^{10} - 1$ .
- Find the value of  $x$ , if  $(x - a)$  is a factor of  $x^3 - a^3x + x + 2$ .
- Determine the value of  $a$  for which the polynomial  $2x^3 - ax^2 + 4x^2 + 2x + 1$  is divisible by  $(1 - 2x)$ .
- Factorize the polynomials:-  
 (a)  $x^2 - 6x^2 + 11x - 6$  (b)  $(a^2 - b^2)^2 + (b^2 - c^2)^2 + (c^2 - a^2)^2$   
 (c)  $x^3 + 13x^2 + 31x - 45$  given that  $x + 9$  is a factor  
 (d)  $8x^2 + 27^2 + z^2 - 18xyz$  (e)  $(a + b)^2 + (b + c)^2 + (c + a)^2 - 3(a + b)(b + c)(c + a)$
- Factorize:-  
 (a)  $a^3 - 0.216$  (b)  $2x^2 - \frac{5}{6}x + \frac{1}{12}$  (c)  $(x + 1)^2 + (x - 1)^2$
- Give possible expressions for the length and breadth of a rectangle having  $A = 35y^2 + 13y - 12$  (Area).
- Evaluate using a suitable identity:-  $(1.93)^2 + (0.07)^2 - (2)^2$
- Find the product:  $(2x - y + 3a)(4x^2 + y^2 + 9a^2 + 2xy + 3yz - 6xz)$
- Factorize by splitting the middle term:  
 (a)  $9x^2 - 3x - 9$  (b)  $x^2 + 14x + 40$  (c)  $5x^2 + 16x + 3$

**Class : IX Subject : Mathematics Assignment 3: Coordinate Geometry**

- Write the coordinates of a point which:-  
 (a) Lies on the x-axis and is at a distance of 4 units to the right of the origin.  
 (b) Lies on the y-axis and is at a distance of  $y$  units below the x-axis.  
 (c) Is at a distance of 3 units from the x-axis and 7 units from the y-axis. [there would be four such points]
  - Draw the graphs of the eqns:-  
 (a)  $3x - 2y = 7$  (b)  $y = -2$   
 on the same pair of axes. Read the coordinates of their point of intersection.
  - Find the point where the line represented by the equation  $5y - 3x - 10 = 0$  cuts the y-axis.
  - Draw the graph of the line  $3x + 4y = 18$ . With the help of graph find value of  $y$  when  $x = 2$ . (show this point on the graph)
  - On a graph draw a quadrilateral whose vertices are  $(1,1)$ ,  $(2,4)$ ,  $(8,4)$  and  $(10,1)$ . Justify the quadrilateral.
  - How will you describe the position of the table lamp on your study table to another person?
- 
- Draw the graph of  $y = 2x + 4$ . Use the graph to find the area between the line and the axes.
  - In which quadrant will the point lie, if:-  
 (a) ordinate is 3 and abscissa is -7  
 (b) abscissa is -10 and ordinate is -4  
 (c) Ordinate is 4 and abscissa is -6.
  - Fill in the blanks:-  
 (a) The coordinates of the origin 0 are .....  
 (b) The y coordinate of every point on the x-axis is .....  
 (c) Distance along the x-axis is called .....  
 (d) Distance along the y-axis is called .....  
 (e) The point  $(x,y) = (y,x)$  only if .....

केन्द्रीय विद्यालय वायुसेनास्थल बागडोगरा

ग्रीष्मकालीन अवकाश

गृहकार्यम्

कक्षा - नवमी (9th)

सत्रम् - 2020 - 2021

विषयाध्यापक का नाम - कवीन्द्र कुमार कविजी पद - टी. जी. टी. ( संस्कृत)

1. शब्दरूप - (क) अकारान्त (पुं.) बालक / देव / राम, (ख) इकारान्त (पुं.) हरिः / मुनि (ग) आकारान्त (स्त्री.) बालिका / लता (घ) ईकारान्त (स्त्री.) नदी (ङ) अकारान्त (नपुं.) पुष्प / फल (च) उकारान्त (पुं.) साधु (छ) ऋकारान्त (स्त्री.) मातृ (माता) शब्द का रूप सभी विभक्तियों में लिखकर स्मरण करें ।

2. धातुरूप - पठ्, अस्, कृ, पा, भू, सेव् धातुओं के रूप पाँचों लकारों में लिखकर स्मरण करें ।

3. [www.newsonair.in](http://www.newsonair.in) , AIR(आकाशवाणी). DD1 की सहायता से संस्कृत में समाचार सुनें  
1. वार्तावली ( Vartavali ) के एपिसोड DD1 की सहायता से सुनें , देखें ।

4. अव्यय परिभाषा उदाहरण सहित लिखें तथा अभ्यासपुस्तकम् ( पेज - 96 ) का प्रश्न सं. - 1, 2, 3, 4 को हल करें ।

5. ' वसंतगीति: ' प्रथम पाठ के सभी श्लोक का अर्थ याद करें ।

6. संख्यावाचक शब्दाः ( 1 तः 50 ) संस्कृत में लिखें ।

7. द्वितीय पाठ का प्रश्नोत्तर स्मरण करें ।

8. ' सन्धि: ' ( स्वर ) के पाँचों भेदों को याद कर, अभ्यासपुस्तकम् (पेज - 86 ) का प्रश्न सं. - 1, 2, 3, 4 को हल करें ।

## **SUMMER VACATION ASSIGNMENT**

### **CLASS – IX**

### **SUBJECT – SCIENCE**

Q1. Give reasons . why? :

- a. Cell membrane is called selectively permeable membrane.
- b. Inner membrane of mitochondria is folded.

Q2. Name any two semi-autonomous cell organelles.

Q3. Distinguish between nucleus and nucleoid.

Q4. **ASSERTION- REASON TYPE QUESTIONS**

For the following questions, two statements are given, one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from codes (a), (b), (c) and (d) as given below

- (a) Both A and R are true and R is correct explanation of the assertion
- (b) Both A and R are true and R is not the correct explanation of the assertion
- (c) A is true but R is false
- (d) A is false but R is true

1) A: Mitochondria is known as the power house of the cell  
R: ATP synthesis takes place in mitochondria

2) A: Leucoplast helps in photosynthesis  
R: These are colourless Plastids

3) A: We feel more cold after taking bath with hot water.  
R: Evaporation of hot water takes place faster which causes cooling.

### **Q5. PISA Type Question**

Global lake evaporation will increase 16 percent by the end of the century as a consequence of climate change, a new Yale study finds. Warming temperatures will also introduce an increase in energy needed to support the process of evaporation



— essentially changing how energy is allocated. In dry climates, the increased rate of evaporation may be even higher,” he said. “So in some local regions the question of how you conserve water could become an increasingly important question.”

Q.1 Global warming for us is

- (a) Good, it helps in high precipitation      (c) Good, keeps environment balanced  
(b) Harmful, decreases sea level very fast      (d) Harmful, Disturbs climatic cycle

Q.2 Mention two factors responsible for Global warming.

Q.3 Due to Global warming Ice bergs are

- (a) Increasing (b) Constant (c) Decreasing (d) Thickens gradually

**Q6**

**PISA TYPE QUESTION**

**A gift of nature: Ozone layer.**

You know about the ozone layer in our atmosphere. It protects us from the harmful ultraviolet radiation which come from the sun. Ozone absorbs this radiation and breaks down to oxygen. Oxygen is different from ozone. Can we call the breaking down of ozone a chemical change?

If ultraviolet radiation were not absorbed by ozone, it would reach the earth’s surface and cause harm to us and other life forms. Ozone acts as a natural covering against this radiation.

1. Can we call the breaking down of ozone a chemical change?

Yes/ No.

2. Oxygen is different from ozone.

Yes/ No.

**Q7.**

**PISA TYPE QUESTION**

The students of class IX conducted an experiment related to osmosis. The following observations were made after conducting following osmosis experiment:

Took four different slices of the potatoes of different lengths as below:

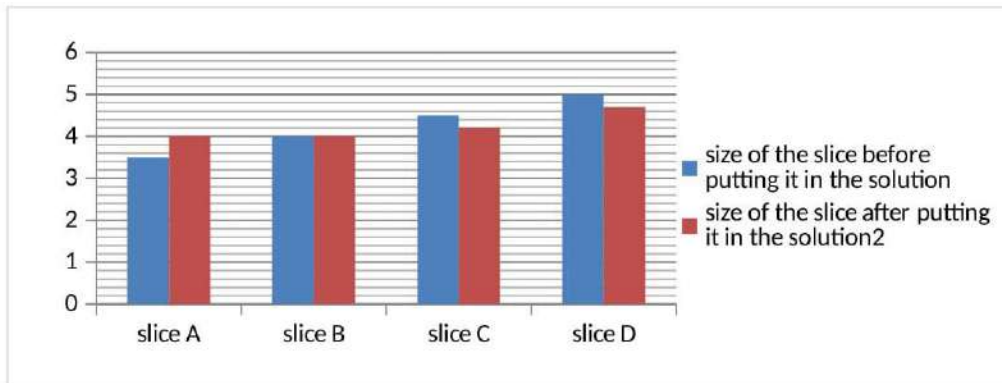
Slice 1: 3.5cm

Slice 2: 4cm

Slice 3: 4.5cm

Slice 4: 5cm

Put each potato slice in the four different test tubes containing different solutions randomly. The four solutions taken are hypertonic solution, hypotonic solution, isotonic solution and distilled water. The slices were kept for two hours and following observations were made.



On the basis of the above observations answer the following questions:

Q.1.1. Slice A, B and D is kept in

- a) Isotonic, hypotonic and hypertonic solutions respectively
- b) Distilled water, isotonic and hypertonic solution respectively
- c) Isotonic, hypotonic and hypertonic solution respectively
- d) Hypotonic, isotonic and distilled water solution respectively

Q.1.2. the cell will swell up if

- a) the concentration of water molecules in the cell is higher than the concentration of water molecule in the surrounding medium
- b) the concentration of water molecules in surrounding medium is higher than water molecules concentration in the cell
- c) the concentration of water molecules is same in the cell and surrounding medium
- d) concentration of water molecule does not matter.

Q.1.3 What will happen if the animal cell is kept in distilled water for 24 hrs?

Q.1.4 If the cells of an onion peel and RBC are separately kept in hypotonic solution. What among the following will take place? Explain the reason for your answer.

- a) Both the cells will swell
- b) RBC will burst easily while cells of onion peel will resist the bursting to some extent.
- c) a and b both are correct
- d) RBC and onion peel cells will behave similarly.

### SA-II

Q8. Which type of plastids help in photosynthesis? What are the colours absorbed by the plants?

Q9. Draw the diagram of a plant cell and label any three parts which make it different from an animal cell.

Q10. What are the characteristics of the particles of matter?

Q11. For any substance, why does the temperature remain constant during the change of state?

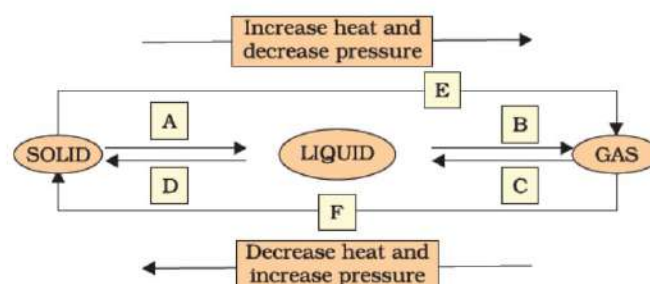
Q12. Why do we see water droplets on the outer surface of a glass containing ice-cold water?

Q13. What type of clothes should we wear in summer? Why?

Q14. Distinguish between Plasma and BEC states of matter.

Q15. Convert the following temperatures to the celsius scale.  
(a) 293 K (b) 470 K.

Q16. Name A,B,C,D,E and F in the following diagram showing change in its state



Q17. What is cell theory? Who proposed it?

Q18. What would happen to the life of a cell if there was no Golgi apparatus?

Q19. How does an *Amoeba* obtain its food? Draw the diagram.

Q20. Describe about nucleus and its parts with diagram.

**KV AFS BAGDOGRA**

**HOLIDAY HOME WORK 2020-21**

**CLASS-IX**

**SUBJECT –SOCIAL SCIENCE.**

**Answer the following question**

- 1. Which island countries are our southern neighbors?**
- 2. The sun rises two hours earlier in Arunachal Pradesh as compared to Gujarat in the west but the watches show the same time. How does this happen?**
- 3. The central location of India at the head of the Indian Ocean is considered of great significance. Why?**
- 4. In China, elections are held after every five years. In spite of this, China does not have a democratic government. Why?**
- 5. 'Democracy is based on consultation and discussion.' Explain.**
- 6. Is it possible for any country to become a perfect democracy? Give reasons.**
- 7. Why is Democracy considered the best form of government? Give three reasons.**
- 8. On the basis of the various examples given in the chapter, state what should be the four features of a democracy.**
- 9. Write any four disadvantages of democracy.**
- 10. Why does a democratic country always need a constitution?**
- 11. . What were the taxes paid by the 3rd estate members of French society.**
- 12. What were the causes of empty treasury at the time of Louis XVI?**
- 13. Write a short note on the fall of Bastille.**
- 14. Describe the main features of the constitution of 1791 drafted by the National Assembly**
- 15. Write a short note on the Jacobins club.**
- 16. Write a short note on the slave trade.**
- 17. Describe the circumstances leading to the outbreak of revolutionary protest in France.**

**(2) CCT based question.**

**1. If you were the prime minister of India at the time of this COVID19 pandemic. What will be your 3 important steps to fight against this.**

**2. What are the important changes which do you want to bring in your society.**

**3. What you think about our education system?**

**(3) Subject enrichment**

Locate the following palace on the map of French.

1. Normandy 2.Nantes 3.Bordeaux

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