

**SANT NIRANKARI PUBLIC SCHOOL**  
**ASSIGNMENTS JUNE [ WEEK 4 ]**  
**Class X**

**English**  
**(Week: 4) Assignment- 1**  
**Poem –How To Tell Wild Animals**  
**-Carolyn Well**

**How to Tell Wild Animals -Summary of the poem**

The poet is describing the various wild animals. These animals are very dangerous and she has introduced them one by one in a very funny way. First of all she tells us about an Asian lion. She says that if you are visiting the jungles of the east and there you see an animal which has tawny skin and he roars so loudly that you will die out of fear. This means that you have seen an Asian lion. Next in the line is the Bengal tiger that she has explained to be a royal animal that at once attacks and kills a man. She says by adding humour that if this beautiful black striped animal kills you and eats you, then you have surely met a Bengal tiger. After this, she says that if the reader met an animal that has black spotted skin and it at once jumps on him, then it means that the reader has met a leopard. Moreover, she says that if one will cry out in pain, it maybe of no use as the leopard will not stop attacking him. Then she moves on to the bear that she says will hug very tightly. This is the way to recognize a bear as it kills a person by hugging him very tightly. So, she says that the bear will continue to hug us tightly and that is the only way to recognize him. After this, she asks a question to the readers that do they know how to recognize beasts that hunt their prey. Here she explains about hyenas which she thinks have a smiling face and the crocodiles that have tears in their eyes. This can be seen when they are killing their prey. The last one in the list is the Chameleon. She says that it is a lizard - like creature which doesn't have ears and wings just like a lizard. Only this can help you differentiate between a lizard and chameleon. She further says that the chameleon has a quality of changing its color according to the colour of the surface. So, to explain this she says that if the reader looks at the tree and if he can only see the tree, this means that there is a chameleon sitting on it which has already turned its color to brown just like the branch of the tree.

**Q1 Read the following lines carefully and answer the questions that follow:**

- (i) *If ever you should go by chance To jungles in the east;  
And if there should to you advance A large and tawny beast,  
If he roars at you as you're dyin'  
You'll know it is the Asian Lion ....*

- (a) State features of an Asian Lion.  
(b) What do you mean by 'tawny'?

(ii) *Or if some time when roaming round, A noble wild beast greets you,  
With black stripes on a yellow ground, Just notice if he eats you.  
This simple rule may help you learn The Bengal Tiger to discern.*

- (a) How can you recognize a Tiger?  
(b) Why does the poet call him a noble animal?

**Q2 Answer the following questions in about 30-40 words each:**

- a) How can you identify Asian Lion and the Bengal Tiger?
- b) How can you distinguish between a hyena and a crocodile?
- c) How does the poet describe the bear?
- d) Describe the few characteristics of a chameleon.

**(Week: 4) Assignment- 2**

**Poem - A Tiger in the Zoo**

-Leslie Norris

**Summary of the poem**

The poem begins with a description of a tiger that is very beautiful and is walking in his little cage. He has beautiful stripes on his skin and has velvet like soft paws. But the tiger is not happy and is quite angry about being confined in the cage. The poet says that if the tiger was not confined to the zoo cage, he would have been hiding himself behind the long grass near some water body, in order to catch its prey that is the deer. Also, he would have terrorized the residents of the villages around the forest area. But the reality is totally opposite to this. He was confined in a cage which was made up of strong building material and he was helpless there. He could not show his power to the visitors, therefore, never tried to terrorize them. The tiger is described as being powerless and agonized by the poet. He says that during night also he is alone, hearing the voice of the patrolling vehicles of police and looking at the stars. The cage life has totally changed the tiger's personality. The poet is trying to say that the animal which is famous for its fearlessness and freedom is confined and sad due to the human beings who want to derive pleasure by looking at him in the zoo cage.

Q 1. Read the following lines carefully and answer the questions that follow

- (i) *He stalks in his vivid stripes,  
The few steps of his cage,  
On pads of velvet quiet,  
In his quiet rage.*

- (a) Why the tiger could walk only a few steps?
- (b) Why is he in quiet rage?

- (ii) *He should be lurking in shadow,  
Sliding through long grass,  
Near the water hole,  
Where plump deer pass.*

- (a) Who is 'He' here?
- (b) Who would pass through the water hole?

Q2 Answer the following question in about 100-150 words:

- a) Love for freedom is the natural instinct of every living being. Comment.
- b) Is it right to confine wild animals into cage? Why/ Why not?

**MATHEMATICS [ WEEK 4 ] [ WORKSHEET 1 ]**

**CH-4 QUADRATIC EQUATIONS**

Q-1 If  $x = -1/2$  is a solution of the quadratic equation  $3x^2 + 2kx - 3 = 0$ , find the value of k.

Q- 2 If 1 is the root of the equations  $ay^2 + ay + 3 = 0$  and  $y^2 + y + b = 0$ , then find the value of ab.

Q-3 If the following quadratic equations has equal roots, find the value of p:

(i)  $9x^2 - 3px + k = 0$       (ii)  $px(x - 3) + 9 = 0$

Q-4 If sum of the roots of the equations  $x^2 - x = m(2x - 1)$  is zero then find the value of m.

Q-5 If  $x^2 + k(4x + k - 1) + 2 = 0$  has equal roots then find the value of k.

Q-6 If sum and product of the roots of the equations  $kx^2 + 6x + k = 0$  are equal then find the value of k.

Q-7 Find a quadratic equation whose one root is 2 and sum of whose roots is zero.

Q-8 Find the value of k for which the quadratic equation  $16x^2 + 4kx + 9 = 0$  has real and equal roots.

Q-10 Find the value of p for which the roots of the equation  $x^2 + 4x + k = 0$  are real.

### WORKSHEET 2 (CH-15)

1. A die is thrown once. What is the probability of getting
  - (i) An even number
  - (ii) An odd number
  - (iii) A prime number
  - (iv) A composite number
  - (v) A number less than 4
  - (vi) A number less than or equal to 5
  - (vii) A number greater than or equal to 3
  - (viii) A number seven
2. Cards are marked with numbers 13,14,15,.....,60 are placed in a box and mixed thoroughly. One card is drawn at random from the box. Find the probability that the number on the card drawn is
  - (i) Divisible by 5
  - (ii) An even number
  - (iii) A number which is a perfect square
  - (iv) A prime number
  - (v) A number which is divisible by 2 or 3
  - (vi) A number which is divisible by 2 and 3
  - (vii) A number which is not divisible by 10
3. One card is drawn from a well shuffled deck of 52 cards Find the probability of getting
  - (i) A king of red colour
  - (ii) A face card
  - (iii) A queen
  - (iv) A red face card
  - (v) A spade
  - (vi) A jack of hearts
  - (vii) A queen of diamond
  - (viii) Spade or an ace
  - (ix) Neither king nor queen
  - (x) Red card
  - (xi) Not red card
  - (xii) A king or a jack

5. Two dice are thrown simultaneously, find the probability of getting :
  - (i) 5 will not come up either side
  - (ii) 5 will come up at least once
  - (iii) Same number on both the dice.
  - (iv) Different numbers on both the dice.
  - (v) Doublet of a number
  - (vi) Sum is less than 5
  - (vii) Prime number comes on first.
  - (viii) Odd numbers on both the dice
  - (ix) Numbers having a sum less than or equal to 12
  - (x) Two coming on the first die and a multiple of three on the other.
6. Two coins are tossed simultaneously. Find the probability of
  - (i) Getting at least one head
  - (ii) One head
  - (iii) At most one head
  - (iv) At least one tail
  - (v) One tail
7. What is the probability that the leap year selected at random will contain 53 Sundays?
8. What is the probability that the year selected at random will contain 53 Sundays?
9. A bag contains 5 black, 7 red and 3 white balls. A ball is drawn at random from the bag, find the probability that the ball drawn is:
  - (i) Red
  - (ii) either black or white
  - (iii) not black
10. Kajal and Priyanka are two friends. They were both born in 1991. What is the probability that they have
  - (i) same birthdays?
  - (ii) Different birthdays?

### **SUBJECT – SCIENCE (CHEMISTRY)** **CHAPTER - 1 WEEK 4 (ASSIGNMENT – 1)**

Question (1):- In refining of silver, the recovery of silver from silver nitrate solution involved displacement by copper metal. Write down the reaction involved.

Question (2):- Explain the following in terms of gain or loss of oxygen with two examples each.

- (a) Oxidation                      (b) Reduction

Question (3):- A shiny brown coloured element X on heating in air becomes black in colour. Name the element X and the black coloured compound formed.

Question (4):- Oil and fat containing food items are rancid with nitrogen. Why?

Question (5):- Explain the following terms with one example of each:

- (a) Corrosion                      (b) Rancidity

### **PHYSICS (ASSIGNMENT – 2)**

1. A spherical mirror produces an image of magnification -1 on a screen placed at a distance of 50cm from the mirror. (a) Write the type of mirror.

(b) Find the distance of the image from the object.

(c) What is the focal length?

- (d) Draw the diagram to show the image formation in this case.
2. A student has focused the image of a candle flame on a white screen using a concave mirror. The situation is as given below: Length of the flame = 1.5cm Focal length of the mirror = 12cm Distance of flame from the mirror = 18cm Calculate the following:
- Distance of the image from the mirror
  - Length of the image
  - If the distance between the mirror and the flame is reduced to 10cm, then what would be observed on the screen? Draw ray diagram to justify your answer for this situation.
3. A concave mirror produces 3 times enlarged image of an object placed at 10cm in front of it. Calculate
- the focal length of the mirror.
  - Show the formation of the image with the help of a ray diagram when an object is placed 6cm away from the pole of the mirror.
4. The refractive index of a dense flint glass is 1.65 and for alcohol it is 1.36 with respect to air. Find the refractive index of dense flint glass with respect to alcohol.
5. Define 1 Dioptre. Calculate the Power of concave lens having focal length 25cm.
6. Two convex lens having focal length 25cm and 40cm. Which of them have higher Power?

### **BIOLOGY [Life processes] (ASSIGNMENT – 3)**

- List three characteristics of lungs which make it an efficient respiratory surface.
- What is the role of HCl in our stomach ?
  - What is emulsification of fats ?
  - Which protein digesting enzyme is present in pancreatic juice ?
- List in tabular form three differences between arteries and veins.
- Draw a diagram of human excretory system and label renal artery and urethra.  
State in brief the function of :
  - renal artery
  - kidney
  - ureter
  - urinary bladder
- Draw a diagram of excretory system in human beings and label the following parts. Aorta, kidney, urinary bladder and urethra.
  - How is urine produced and eliminated ?
- Why do the walls of the trachea not collapse when there is less air in it?
- In human alimentary canal, name the site of complete digestion of various components of food. Explain the process of digestion.
- List the three kinds of blood vessels of human circulatory system and write their functions in tabular form.:
- Draw a diagram to show open stomatal pore and label on it:
    - guard cells
    - chloroplast
  - State two functions of stomata.
  - How do guard cells regulate the opening and closing of stomatal pore?
- Draw a diagram of human respiratory system and label the following:

- (i) part where air is filtered by fine hair and mucus
  - (ii) part which terminates in balloon – like structures
  - (iii) balloon – like structures where exchange of gases takes place. (iv) part which separates chest cavity from abdominal cavity.
  - (b) Why is the rate of breathing in aquatic organisms much faster than in terrestrial organisms?
11. Draw a neat diagram of excretory system of human beings and label the following:
- (i) Kidney
  - (ii) Ureter
  - (iii) Urinary Bladder
  - (iv) Urethra

**SOCIAL SCIENCE**  
**WEEK-4 [ ASSIGNMENT – 1 ]**  
**MCQs Chapter 1 Resource and Development**

1. Which one of the following type of resource is iron ore?
- (a) Renewable
  - (b) Biotic
  - (c) Flow
  - (d) Non-renewable

**Answer**

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2. Under which of the following type of resource can tidal energy be put?
- (a) Replenishable
  - (b) Human-made
  - (c) Abiotic
  - (d) Non-renewable

**Answer**

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3. Which one of the following is the main cause of land degradation in Punjab?
- (a) Intensive cultivation
  - (b) Deforestation
  - (c) Over-irrigation
  - (d) Overgrazing

**Answer**

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4. In which one of the following States is terrace cultivation practiced?
- (a) Punjab
  - (b) Plains of Uttar Pradesh
  - (c) Haryana
  - (d) Uttaranchal

**Answer**

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5. In which of the following States is black soil found?
- (a) Jammu & Kashmir

- (b) Gujarat
- (c) Rajasthan
- (d) Jharkhand

**Answer**

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6. What percentage of our land should be under forest according to the National Forest Policy (1952)?

- (a) 33
- (b) 22.5
- (c) 31
- (d) 30

**Answer**

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7. Materials in the environment which have the potential to satisfy human needs but human beings do not have appropriate technology to access them are called:

- (a) Potential resource
- (b) Stock
- (c) Developed resource
- (d) Reserves

**Answer**

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8. India's territorial water extends upto a distance of:

- (a) 12 km
- (b) 12 nautical miles
- (c) 19.2 miles
- (d) 200 nautical miles

**Answer**

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9. Resources that take long geological time for their formation are called:

- (a) Renewable resources
- (b) Reserve
- (c) Community resources
- (d) Non-renewable resources

**Answer**

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10. Area sown more than once in an agricultural year plus net sown area is known as:

- (n) Net sown area
- (b) Forest cover
- (c) Waste land
- (d) Gross cropped area

**Answer**

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11. The total degraded land in our country is:

- (a) 133 million hectares
- (b) 130 million sq. km.

- (c) 140 million hectares
- (d) 130 million hectares

**Answer**

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12. In which of the following States mining has caused severe land degradation?

- (a) Gujarat
- (b) Jharkhand
- (c) Kerala
- (d) Uttaranchal

**Answer**

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13. The main cause of land degradation in Punjab, Haryana and Western Uttar Pradesh is:

- (a) Mining
- (b) Over irrigation
- (c) Deforestation
- (d) Over grazing

**Answer**

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14. Which is the most common soil of Northern India?

- (a) Black soil
- (b) Laterite soil
- (c) Alluvial soil
- (d) Red soil

**Answer**

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15. Red soil is mostly found in:

- (a) Parts of Jammu & Kashmir
- (b) Upper Ganga Plains
- (c) Eastern and Southern part of Deccan Plateau
- (d) None of the above

**Answer**

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16. Red soil is reddish in colour due to:

- (a) high clay content
- (b) presence of kankar nodules in the subsoil
- (c) diffusion of iron in igneous and metamorphic rocks
- (d) high moisture content

**Answer**

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17. Which of the following is not important for soil formation?

- (a) Relief
- (b) Parent rock
- (c) Climate
- (d) Duration of day



### Answer

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18. Black soil is also called:

- (a) Bangar
- (b) Khadar
- (c) Regur
- (d) Humus

### Answer

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19. Black soils are common in:

- (a) Deccan trap region
- (b) Kashmir Valley
- (c) Ganga Valley
- (d) Northern Plains

### Answer

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20. Laterite soil is very useful for growing:

- (a) Rice, wheat and mustard
- (b) Tea, coffee and cashewnut
- (c) Pulses, sugarcane and resin
- (d) None of the above

### Answer

## ASSIGNMENT - II

### Geography Chapter 1 Resources and Development

Question 1.

What do you understand by a 'Resource'? Give examples.

Answer:

Question 2.

"Resources are a function of human activities." Justify this statement.

Answer:

Question 3.

Write the classification of resources on four different bases.

Answer:

Question 4.

Explain the classification of resources on the basis of origin and give one example of each.

Answer:

Question 5.

Classify the resources on the basis of exhaustibility and give two examples of each.

Answer:

Question 6.

Write two types of renewable resources and give one example of each type.

Answer:

Question 7.

Write two characteristics of non-renewable resources and write their two broad categories with examples.

Answer:

Question 8.

Give any two examples of non-renewable resources.

Answer:

Question 9.

Explain four types of resources based on ownership and give one example of each type.

Answer:

Question 10.

Distinguish between the following:

1. Potential and Developed Resources;

2. Stock and Reserves.

Answer:

(कार्यपत्रिका- 3)

जून 2021 - चतुर्थ सप्ताह

कक्षा:- दसवीं (विषय :- हिंदी)

व्याकरण खंड पर आधारित

सूचनानुसार सही विकल्प चुनिए।

(1) सुकुमारी परिश्रमी और होशियार है। पदबंध का भेद बताइए।

(क) संज्ञा पदबंध (ख) विशेषण पदबंध

(ग) सर्वनाम पदबंध (घ) क्रिया पदबंध

(2) रेखांकित पदबंध की पहचान कीजिए - विद्या खुशबू का चुटकुला सुनकर हँसती रही।

(क) क्रियाविशेषण पदबंध (ख) संज्ञा पदबंध

(ग) क्रिया पदबंध (घ) विशेषण पदबंध

(3) क्रियाविशेषण पदबंध छाँटिए।

(क) राधा टी.वी. देखते-देखते सो गई। (ख) राधा खा कर सो गई।

(ग) राधा टी.वी. देखकर सो गई। (घ) राधा खेलकर चली गई।

(4) सर्वनाम पदबंध का उदाहरण छाँटिए।

(क) मेज़ पर राखी हुई पुस्तक मेरी माताजी की है।

(ख) दर-दर भटकने वाले तुम कभी सफल नहीं हो सकते।

(ग) घर के पीछे लगा पेड़ सूख गया।

(घ) बच्चा रोते-रोते सो गया।

5) कठोर बनकर भी सुहृदय बनो। वाक्य का प्रकार चुनिए।

(क) संयुक्त वाक्य            (ख) मिश्र वाक्य

(ग) सरल वाक्य            (घ) इनमें से कोई नहीं

(6) संयुक्त वाक्य के लिए उदाहरण छाँटिए -

(क) मैं बाज़ार जाऊँगी और खिलौने खरीदूँगी।

(ख) जब माताजी बाज़ार गईं तब बच्चों के लिए खिलौने लाईं।

(ग) घर जाकर गृह कार्य पूरा करो।

(घ) जैसे ही मैंने खाना खाया वैसे ही मैं सो गया।

(7) मिश्रित वाक्य का उदाहरण छाँटिए।

(क) जो मेरे पास खिलौना है, वह बैटरी से चलता है।

(ख) परिश्रम करने वाले को सफलता मिलती है।

(ग) परिश्रम करने वाले सफलता पाते हैं।

(घ) स्टेशन पहुँचे और हमारी प्रतीक्षा करें।

(8) मुख्य अतिथि आए और कार्यक्रम शुरू हुआ। - कौन-सा वाक्य

(क) मिश्रित वाक्य            (ख) संयुक्त वाक्य

(ग) सरल वाक्य            (घ) प्रश्नवाचक वाक्य

कार्यपत्रिका – 4  
( जून -2021 चतुर्थ सप्ताह)  
कक्षा – दसवीं (विषय – हिंदी)

## मुहावरे

प्रश्न 1 निम्नलिखित वाक्यों के रिक्त स्थानों की पूर्ति उचित मुहावरों द्वारा कीजिए

- 1 पुत्र के अनुत्तीर्ण होने का समाचार सुनकर पिताजी..... हो गए ।
- 2 उसने पिता के बारे में ऐसी बातें सुनकर रवि..... बैठा और उसने मोहन को थप्पड़ मार दिया।
- 3 राधा ने परीक्षा में उत्तीर्ण होकर अपने प्रधानाध्यापक पिता की..... ली।
- 4 दिनेश बहुत मन से पढ़ाई करता है क्योंकि उसे पता है कि पढ़ाई पर होने वाला खर्च उसके पिता की..... है।
- 5 व्यापार में नुकसान होने के बाद राजकुमार..... हो गया ।
- 6 देश की सीमा पर लड़ने वाले सैनिकों के..... रहती है ।
- 7 बड़ों को हमेशा छोटों को..... से रोकना चाहिए ।
- 8 केशव इतना बद मिजाज कि वह बात बात पर..... लेता है ।
- 9 रात के अँधेरे में बदमाशों को अपने सामने देखकर राघव के..... गए ।
- 10 परीक्षा को लेकर शालिनी को कोई तनाव नहीं है क्योंकि इस बार उसने किताबों का..... लिया है ।
- 11 विशेषज्ञ विद्वान को समझाना ऐसा ही है जैसे..... ।
- 12 गणित का गृह कार्य करना मुझे..... प्रतीत होता है
- 13 मनुष्य को विपरीत परिस्थितियों में हमेशा..... चाहिए ।
- 14 इतना सीधा होना भी अच्छी बात नहीं है तुम तो बिल्कुल..... हो ।
- 15 पिताजी पहले से ही क्रोधित है ऊपर से नौकर ने उन पर चाय गिरा कर..... दीया
- 16 जब रांची का झूठ पकड़ा गया तो उस पर..... गया
- 17 अध्यापक के बेटे का फेल हो जाने का मतलब है.....।
- 18 बच्चों की नारेबाजी सुनकर प्रधानाचार्य जी..... हो गए।
- 19 वर्ष 2013 के जून में केदारनाथ की यात्रा करने वाले सभी तीर्थ यात्रियों की..... पर थी ।
- 20 कल कश्मीर में आतंकवादियों के साथ सेना की जमकर.....।

**ASSIGNMENT-1 (WEEK- 4)**  
**SUBJECT: Information Technology**

**Topic: Ms Word: Pictures and Objects**

Answer the following

1. How will you insert an object and apply fill and outline colour in it?
2. What is the advantage of embedding any file into a document? Write the steps to insert a PDF document in an MS Word document.
3. Write down steps to crop a part of a picture.

## Practical

- Open Ms Word and create the document as per the following guidelines :
- Insert some pictures of yourself or of a function held at your home or school in the document
- Set their Layout option to Through.
- Arrange these pictures to make a collage

**ASSIGNMENT-2 (WEEK- 4)**  
**SUBJECT: Information Technology**

**Topic: Ms Word: Mail Merge**

Answer the following

1. What is the use of Mail Merge tool in MS Word?
2. Define the following ( in context to mail merge)
  - a) Main Document
  - b) Data Source
  - c) Merge field
  - d) Merged Document
3. Write the steps to insert merge fields in a document.
4. What do you mean by TOC (Table of Contents) ?