

हरि विद्या मठ
विषय :- हिन्दी

सामान्य निर्देश

- ① पुर-तुत काम अपनी हिन्दी साहित्य की पुस्तिका में कीगरे। किन्ती अन्य पुस्तिका में किया गया कार्य स्वीकार नहीं किया जाएगा।
- ② सभी विद्यार्थियों को ईकार्ड परिक्षा के लिए पुर-तुत कार्य पूर्ण करना अनिवार्य है।
- ③ वर्कशीट में दिए गए पाठ एवं कविता को ध्यानपूर्वक पढ़ें।
- ④ सभी विद्यार्थियों को पाठ एवं कविता को समझने के लिए हिन्दी की पुस्तक लेना अनिवार्य है।
- ⑤ वर्कशीट से संबंधित समस्या पूछने के लिए आप अपने कक्षा गुप पर सुबह 10 बजे से 12 बजे तक तथा शाम को 4 बजे से 6 बजे तक मैसेज कर सकते हैं।

द्वारे विद्या सवन
विषय :- दिव्य
कक्षा :- नवी
पकशीट :- 26.

(पुनरावृत्ति कार्य)
दिनांक :- 29/7/20

(पुस्तक :- स्पर्शी) (गद्य अंड)

पाठ :- तुम कब जाइोगे, आतिथि

लेखक :- अरुण जोशी

- क) निम्नलिखित प्रश्नों के उत्तर दीजिए।
- 1) आतिथि कितने दिनों से लेखक के घर पर रह रहा है?
 - 2) लेखक आतिथि को कैसा विदाई देना चाहता था?
 - 3) कौन - सा आघात अप्रत्याशित था और उसका लेखक पर क्या प्रभाव पड़ा?
 - 4) जब आतिथि चार दिन तक नहीं गया तो लेखक के व्यवहार में क्या - क्या परिवर्तन शुरु?

5) पाणि-पत्नी ने मेहमान का स्वागत कैसे किया ?

6) तीसरे दिन सुबह आतीथ ने क्या कहा ?

7) सरकार की अन्तिम समाप्त होने पर क्या हुआ ?

8) शब्दाथ
←→

नम्रता , अंतर्गत , सावधानी , शौचार्थ ,

अप्रत्याशित , आशंका , गुंजायमान , सतत ,

कौनलों , सामीप्य , आतिथ्य , आधात

HARI VIDYA BHAWAN

Worksheet - 26

Class- IX

Subject- Science

Session- 2020-21

Ch- 3 Atoms and Molecules

Date-29/07/2020

Instructions to be followed:

- From now onwards students do your worksheet in your particular subject notebook respectively. Don't use rough sheets, old copies or anything else. All the stationary shops have already opened. So, you can purchase it.
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Gram atomic mass- The amount of substance whose mass in grams is equal to its atomic mass, is called gram atomic mass.

E.g. Atomic mass of Oxygen = 16 u

Gram atomic mass of oxygen = 16 grams

Gram molecular mass or Molar mass- The amount of a substance whose mass in grams is equal to its molecular mass, is called gram molecular mass of that substance.

Or

The mass of one mole of a substance is equal to the molar mass of that substance. The unit of molar mass is grams per mole (g/mol).

E.g. Molecular mass of Oxygen, $O_2 = 32$ u

Gram molecular mass or molar mass of Oxygen, $O_2 = 32$ g

Mole Concept- A group of 6.022×10^{23} particles of a substance is called a mole of that substance. It is equal to the Avogadro number (N_0).

1 mole = 6.022×10^{23} particles

1 mole of atoms = 6.022×10^{23} atoms

1 mole of molecules = 6.022×10^{23} molecules

Number of mole = $\frac{\text{Given mass}}{\text{Molar mass}}$

$$n = \frac{m}{M}$$

Where, n = number of mole

m = given mass in grams

M = Molecular mass or molar mass in grams

Or **Number of mole = $\frac{\text{Number of particles}}{\text{Avogadro number}}$**

$$n = \frac{N}{N_0}$$

Sample Problems: How many moles are present in 5 g of calcium? (Atomic mass of calcium = 40 u).

Solution: m = 5 g, M = 40 g, n = ?

$$n = \frac{m}{M}$$

$$n = \frac{5}{40} = \frac{1}{8} = 0.125 \text{ mole or mol}$$

Sample Problems: What is the mass of 4 moles of aluminium atoms? (Atomic mass of Al = 27 u).

Solution: m = ? n = 4 mole, M = 27 g

$$n = \frac{m}{M}$$

$$m = n \times M$$

$$m = 4 \times 27 = 108 \text{ g}$$

Calculating number of particles in given mass of a substance :-

Number of particles = Number of moles \times Avogadro number

$$N = n \times N_0$$

Or

$$N = \frac{m}{M} \times N_0 \quad [n=m/M]$$

Sample Problems: What is the number of molecules in 0.25 moles of oxygen?

Solutions: n = 0.25 moles, $N_0 = 6.022 \times 10^{23}$ molecules.

$$N = n \times N_0$$

$$N = 0.25 \times 6.022 \times 10^{23}$$

$$N = 1.505 \times 10^{23} \text{ molecules.}$$

Sample Problem: Calculate the mass of 3.011×10^{24} molecules of nitrogen gas (N_2). (Atomic mass of N = 14 u).

Solution: $N = 3.011 \times 10^{24}$ molecules, M of $N_2 = 2 \times 14 = 28$ u, $m = ?$
 $N_0 = 6.022 \times 10^{23}$ molecules.

$$N = \frac{m}{M} \times N_0$$

M

$$3.011 \times 10^{24} = \frac{m}{28} \times 6.022 \times 10^{23}$$

$$m = \frac{3.011 \times 10^{24} \times 28}{6.022 \times 10^{23}}$$

$$m = 140 \text{ g}$$

Answer the following questions:

Q.1 Which has more number of atoms, 100 grams of sodium or 100 grams of iron? (Atomic mass of Na = 23 u, Fe = 56 u).

Q.2 Calculate the molar masses of the following substances:

- (a) Ethyne, C_2H_2 (b) Sulphur molecule, S_8
(c) Phosphorus molecule, P_4 (d) Hydrochloric acid, HCl
(e) Nitric acid, HNO_3

Q.3 What is the mass of:

- (a) 1 mole of nitrogen atoms?
(b) 4 moles of aluminium atoms?
(c) 10 moles of sodium sulphite ($NaSO_3$)?

(Atomic masses: N = 14 u, Al = 27 u, Na = 23 u, S = 32 u, and O = 16 u).

Q.4 Convert into moles:

- (a) 12 g of oxygen gas
(b) 20 g of water
(c) 22 g of carbon dioxide

(Atomic masses: O = 16 u, H = 1 u and C = 12 u)

Q.5 What is the mass of:

- (a) 0.2 mole of oxygen atoms?
(b) 0.5 mole of water molecules?

Q.6 Calculate the number of molecules of sulphur(S_8) present in 16 g of solid sulphur. (Atomic mass of S = 32 u)

Q.7 Calculate the number of aluminium ions present in 0.051 g of aluminium oxide. (Hint: The mass of an ion is the same as that of an atom of the same element. Atomic mass of Al = 27 u)

Note-

- Above questions are given from NCERT blue box and exercise question. For solution check the NCERT solution app.
- Click over the link to understand Mole concept:
<https://youtu.be/13i3xbuaCqI>
- Click over the link to understand Molar mass:
<https://youtu.be/o3MMBO8WxjY>
- Click over the link to understand to calculate number of moles:
<https://youtu.be/o3MMBO8WxjY>
- Click over the link to understand to calculate number of particles:
<https://youtu.be/yHPon6mSzQU>

Gram atomic mass-

HARI VIDYA BHAWAN
Subject: English
Class-X
Work sheet-28
Poetry-7-Animals (First Flight)

DATE:- 29/07/2020,

Instructions to be followed:-

- 1. From now onwards students do your worksheets in your particular subject notebook respectively. Don't use rough sheets, old copies or anything else. All the stationary shops have already opened. So you can purchase it.***
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English First Flight Chapter 7 Animals (poem)

Thinking About the Poem

Question 1.

Notice the use of the word 'turn' in the first line, "I think I could turn and live with animals...". What is the poet turning from?

Answer:

In this line here, the poet wants to turn from human into an animal. This turning is symbolic of the poet's detachment from human beings and their nature and his appreciation of the animal kind.

Question 2.

Mention three things that humans do and animals don't.

Answer:

Animals do not cry and complain over their conditions. They do not commit sins and therefore do not weep for them. They are also very satisfied creatures and have no desire to possess material things. Humans, on the contrary, complain all the time, commit all sorts of sins and are affected with the madness of owning things.

Question 3.

Do humans kneel to other humans who lived thousands of years ago? Discuss this in groups.

Answer:

Yes, humans kneel to other humans who lived thousands of years ago as it is a cultural tradition to do so. (Students can discuss their own culture with their classmates and share the rituals and traditions of their culture and also get to know about other cultural practices.)

Question 4.

What are the 'tokens' that the poet says he may have dropped long ago, and which the animals have kept for him? Discuss this in class .

(Hint Whitman belongs to the Romantic tradition that includes Rousseau and Wordsworth, which holds that civilisation has made humans false to their own true nature.

What could be the basic aspects of our nature as living beings that humans choose to ignore or deny?)

Answer:

The tokens mentioned in the poem mean the symbols of the true nature of human beings. These tokens are actually tokens of virtue such as containment, honesty, innocence and the likes of it.

Read the lines given below and answer the questions that follow :

Question 1.

I think I could turn and live with animals, they are So placid and self-contain'd I stand and look at them long and long.

- (a) Name the poem and the poet.
- (b) What does the poet say about animals ?
- (c) Trace a word from the extract that means 'Serene'.
- (d) The poet looks at the animals.

Answer:

- (a) The poem 'Animals' has been written by Walt Whitman.
- (b) The poet says that the animals are placid, self-contained, calm and peaceful.
- (c) placid.
- (d) long and long

Question 2.

They do not sweat and whine about their condition,
They do not lie awake in the dark and weep for their sins,
They do not make me sick discussing their duty to God.

- (a) Name the poem and the poet.
- (b) Who does the pronoun 'they' stand for.
- (c) Who weep for their sins ?
- (d) Who do not discuss their duty to God?

Answer:

- (a) 'Animals' by Walt Whitman.
- (b) Animals.
- (c) Human beings.
- (d) Animals.

Question 3.

They bring me tokens of myself, they evince them plainly in their possession I wondered where they get those tokens,

Did I pass that way huge times ago and negligently drop them ?

- (a) What does the poet think about the animals brought him tokens of ?
- (b) Who composed these lines ?
- (c) What do the animals evidently show about the tokens ?
- (d) Which word in the passage refers to 'careless'?

Answer:

- (a) The recognition of his true self.
- (b) Walt Whitman.
- (c) The animals evidently show about the tokens of virtues like their kindness, innocent and self-containment.
- (d) Negligently

Link:-- <https://youtu.be/hYdisNYIzU8>

Hari Vidya Bhawan
Worksheet-28
Class-X
Subject- Information Technology

Date:-29.7.20

Instructions to be followed:-

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UNIT-4 Digital Presentation (Intermediate)

Do questions and answers session -1 exercise

Q.1 Write the steps to play video in full screen.

Ans. Play a video full screen

1. In Normal view, click the **video** frame on the slide that you want to **play full screen**.
2. Under **Video** Tools, on the **Playback** tab, in the **Video** Options group, select the **Play Full Screen** check box.

Q.2 Write the step to insert a video file from PowerPoint slide layout.

(for ans. see page no. 393 at the bottom of the page point no. 1 to till the page no.394 all points)

Q.3 What are action buttons? Where will you find them?

Ans. Action buttons are built-in shapes we can add to a presentation and set to link to another slide, play a sound, or perform a similar **action**. When someone clicks or hovers over the button, the selected **action** will occur. **Action buttons** can do many of the same things as hyperlinks. **We will find Action Buttons** within the Shapes Gallery. **They** are placed right at the bottom of the Shapes Gallery and seen highlighted in red

Q.4 What action will happen if you choose Move Over option for an action button?

Ans. Action buttons are built-in **button** shapes we can add to a presentation and set to link to another slide, play a sound, or perform a similar **action**. **When** someone clicks or **moves over** the **button**, the selected **action will occur**.

Q.5 Name different sound format file s that you can insert into Power Point presentation.

Ans. Sound formats that work with **PowerPoint** include: . wav, . mp3., . wma, .

Q.6 What type of formatting you can apply using Design and Layout tab?.

(for ans. see page no. 407 write Design tab & Layout tab)

➤ **Note:- do answer of the question from the suggested page no. of your IT book.**

OR

Watch this link video to understand the above questions

<https://www.youtube.com/watch?v=h5uGyuxj8d4> (watch this video for see video in full screen in PPT.)

<https://www.youtube.com/watch?v=6A-WbuJJU8c> (watch this video for inserting action button in PPT.)

