**KV ASSAM UNIVERSITY SILCHAR**

**HOLIDAY HOMEWORK FOR SUMMER VACATION-2023**

**SESSION (2023-24)**

**CLASS-VI**

Q1. Complete the following table:

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Nutrients  | Function | Sources (any three) |
| 1 | Carbohydrate  | Gives us energy for doing work  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 2 | \_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Coconut oil, ghee, butter  |
| 3 | \_\_\_\_\_\_\_\_\_\_\_ | Help in growth and maintenance of body  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 4 | Vitamin A  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 5 | Calcium  | Keep bones healthy  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Q2. Classify the following objects into different group:

|  |
| --- |
| Oil , ghee , salt, sugar, butter, glucose, ink, fruit juice, soil, sand  |
| Water soluble  |  |
| Water insoluble |  |
| Iron, sponge, plastic, cotton, glass, jelly, copper, butter, steel, rubber |
| Hard materials |  |
| Soft materials  |  |
| Wood, diamond, iron, copper, plastic, rubber, leather, cotton,  |
| Lustrous materials |  |
| Non-lustrous materials  |  |

Q3. Write the deficiency disease of following nutrients:

1. Vitamin A
2. Iron
3. Vitamin B
4. Calcium
5. Vitamin D

Q4. Learn and write the following questions:

1. Write some major nutrients present in our food.
2. What are hard materials? Give three examples.
3. Write the difference between transparent, translucent and opaque objects.
4. What is the role of carbohydrate and fat in our diet?
5. What do you understand by body-building food?
6. What is deficiency diseases?
7. What is the role of dietary fibre in our diet?
8. How will test the presence of starch in our food?
9. Define nutrients.
10. What leads to the condition of obesity?

Q5. Make a poster on millets or health benefits of millets.

**CLASS-VII**

**Q1. MULTIPLE CHOICE QUESTIONS**:

i. Which of the following raw material available in air for photosynthesis?

1. Carbon dioxide
2. Oxygen
3. Nitrogen
4. Hydrogen

ii. Which one of the following plant is insectivorous plant?

1. Cuscuta
2. Pitcher plant
3. Neem tree
4. Amoeba

iii. What is largest gland in human body?

1. Pancreas
2. Salivary Gland
3. Liver
4. None of the above

iv. Some organism live together and share shelter and food. This is known as:

1. Predation
2. Autotrophs
3. Symbiosis
4. Animal husbandry

v. Which nutrients is digested in human stomach?

1. Fat
2. Protein
3. Carbohydrate
4. None of the above

vi. Sac like structure present between oesophagus and small intestine in animals like horses, rabbits etc. is known as:

1. Rumen
2. Caecum
3. Stomach
4. All of the above

vii. Green colour of plants is due to presence of green pigment\_\_\_\_\_\_\_\_\_\_\_.

1. Chlorophyll
2. Xanthophyll
3. Carotenoids
4. None of the above

viii. What is the mode of nutrition in human?

1. Saprotrophic
2. Autotrophic
3. Holozoic
4. Parasitic

ix. Which juice is secreted by liver?

1. Saliva
2. Bile juice
3. Pancreatic juice
4. Intestinal juice

x. Mushroom is:

1. Parasite
2. Autotroph
3. Saprotroph
4. Insectivorous

**Q2. State whether the given statement is true or false.**

1. The sun is the ultimate source of energy of all living organism.
2. Cuscuta is a parasite
3. Human being can digest cellulose easily.
4. Saliva converts the starch into simple sugar.
5. Non-green leaves do not perform photosynthesis.
6. Plants absorbs water and minerals from soil through roots.
7. Insectivorous plants are partial heterotrophs.
8. Bile juice is temporarily stored in small intestine.

**Q3. Define the following terms:**

1. Nutrition
2. Symbiosis
3. Rumination
4. Insectivores
5. Photosynthesis

**Q4. Match the following:**

|  |  |
| --- | --- |
| **Column A** | **Column B** |
| Amoeba | Insectivorous plant |
| Green pigment | Saprotrophs |
| Pitcher plant | Chlorophyll |
| Lichen | Photosynthesis |
| Fungi  | Symbiosis between algae and fungi |

B)

|  |  |
| --- | --- |
| **Column A** | **Column B** |
| Saliva | Complete digestion and absorption of food |
| Ruminants  | Breakdown of starch into simple sugar |
| Bile juice | Holozoic nutrition |
| Small intestine  | Cow, buffalo  |
| Human Being | Breakdown of fat  |

**Q5. Answer the following questions:**

1. Draw a well labelled diagram of human digestive system.
2. Which are the raw materials required by plants for photosynthesis?
3. What are different steps of holozoic nutrition?
4. What is the role of hydrochloric acid (HCl) in our stomach?
5. How amoeba obtain its food?
6. Which plant part is known as food factory of plant and why?
7. What are the different types of teeth present in human? Write the Dental formula of human teeth.
8. Mention the role of chlorophyll in photosynthesis.
9. What is tongue? Write its functions.
10. Write the difference between autotrophs and heterotrophs.

Q6. Make a poster on health benefits of millets and prepare a slogan on millets. (Do it on A4 page)

**CLASS-VIII**

**Q1. MULTIPLE CHOICE QUESTIONS**:

i. Which of the following organism is engaged in nitrogen fixation?

1. Amoeba
2. Rhizobium
3. Penicillium
4. Paramoecium

ii. Fertilizers are \_\_\_\_\_\_\_\_\_ in nature.

1. Organic
2. Inorganic
3. Neutral
4. None of the above

iii. Which of the following is not an agricultural practices?

1. Storage
2. Adding manure and fertilizers
3. Sowing
4. Animal husbandry

iv. Which crop is grown in winter season?

1. Soyabean
2. Maize
3. Gram
4. Groundnut

 v . which is not a traditional method of irrigation?

1. Moat
2. Drip irrigation
3. Chain-pump
4. Rahat
5. Which microbe is present in curd?
6. Yeast
7. Aspergillus
8. Lactobacillus
9. Spirogyra
10. Who discovered vaccine for smallpox?
11. Alexander Fleming
12. Edward Jenner
13. Louis Pasteur
14. None of the above
15. Which one of the following is weedicide?
16. 2.4-D
17. Urea
18. NPK
19. potash

**Q2. State whether the given statement is true or false.**

1. Drip system of a modern method of irrigation.
2. Germination of seeds take place in absence of water.
3. Manure increases the water holding capacity of soil.
4. Fertilizers add humus to soil.
5. Rhizobium found in roots of leguminous plants.

**Q3. Define the following terms:**

1. Threshing
2. Irrigation
3. Animal husbandry
4. Ploughing
5. Crop rotation

**Q4. Match the following :**

|  |  |
| --- | --- |
| **Column A** | **Column B** |
| Fertilizer | Rearing of animals on large scale |
| Animal husbandry | Silos and Granaries |
| Irrigation | Big pieces of soil |
| Storage of grains | Urea, potash , NPK  |
| Crumbs  | Dhekli, Rahat, Moat  |

**Q5. Answer the following questions:**

1. What is irrigation? Explain any two method of irrigation which conserve water.
2. Write the advantages of using manure.
3. Why do we need to remove weeds from field? How can control weeds?
4. How water is essential for the growth of plants?
5. Write the name of different agricultural practices.
6. Write the difference between types of crops.
7. Write any five usefulness of microorganisms.
8. What are the difference group of microorganism? Give two examples each.
9. Write the difference between manure and fertilizer.
10. Explain any three agricultural tools with the help of diagram.

 Q6. Write an essay on the importance of millets on A4 page.

**CLASS-IX**

**MATTER IN OUR SURROUNDING**

Q1. Compare the properties of solid, liquid and gases.

Q2. Differentiate between evaporation and cooling.

Q3. Write any three characteristics of particles of matter.

Q4. Define the following terms:

1. Latent heat of fusion
2. Sublimation
3. Condensation
4. Fusion
5. Evaporation
6. Melting point
7. Latent heat of vapourisation
8. Boiling point

Q5. Explain the factors on which evaporation depends.

Q6. Convert the following in kelvin:

1. 25° C
2. 64.5°C
3. 100°C
4. 79°C
5. 1038°C

**Is matter around us pure?**

Q1. Define the following term:

 a) Solubility

 b) Diffusion

 c) Saturated solution

Q2. Write the difference between solution and colloid.

Q3. Write the properties of suspension.

Q4. A solution of 500 grams of water contains 50 grams of salt, calculate the concentration of solution?

Q5. Observe different forms of matter around you. Identify 10 colloid and write about their dispersed phase and dispersed medium.

Project work:

* Make a poster and write an essay on importance of millets.
* **Prepare an assignment on:**

**1. Role of atmosphere on climate control (roll number 1-10)**

**2. Air pollution (roll number 11-20)**

**3. Mineral riches in the soil (roll number 21-30)**

**4. Biogeochemical cycles (roll number 31-41)**