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| **SESSION** | **SEPTEMBER 2023** |
| **PROGRAM** | **BACHELOR OF ARTS** |
| **SEMESTER** | **I** |
| **COURSE CODE & NAME** | **OBAC101 NATURAL SCIENCE** |
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**Assignment Set – 1**

**1. List five chemicals that you find in your house, which may find use in the kitchen/wardrobe/bathroom/ utility area, on a daily basis. Please provide the chemical composition of each of these five agents, and list two uses of each of them.**

**Ans 1.**

Here are five common household chemicals, along with their chemical compositions and two uses each:

**1. Sodium Bicarbonate (Baking Soda) - NaHCO₃**

**Chemical Composition**: Sodium bicarbonate consists of sodium (Na), hydrogen (H), carbon (C), and oxygen (O) atoms, specifically forming the Its Half solved only

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**2. Classify Consumer products. List five characteristics of each type.**

**Ans 2.**

**Classify Consumer products**

Classifying consumer products can be broadly done into four types: convenience products, shopping products, specialty products, and unsought products. Each of these categories has distinct characteristics that define them and influence consumer behavior.

**Convenience products**

Convenience products are those that are frequently purchased and require minimal effort and time from the

**3. Classify pesticides based on source, chemical composition, mode of entry, type of target pests, and mechanism of action. Please supplement your answer with two examples under each class.**

**Ans 3.**

Pesticides, integral in managing pest populations in agriculture and public health, can be classified based on various criteria such as source, chemical composition, mode of entry, type of target pests, and mechanism of action. Each classification offers a different perspective on how these substances interact with their environment and target organisms.

Starting with the source, pesticides are broadly

**Assignment Set – 2**

**4. A. Write a brief note in about 200 words on the five food types that result in a Balanced diet.**

**B. Bring out the relationship between Nutrition and Brain Health, as well as Nutrition and Gut Health. 5+2.5 +2.5 10**

**Ans 4.**

**A. Balanced Diet: The Five Essential Food Types**

A balanced diet is pivotal for maintaining overall health and well-being. It involves consuming a variety of foods in the right proportions, ensuring the body receives all necessary nutrients. Here are the five essential food types that constitute a balanced diet:

1. **Fruits and Vegetables:** These are rich sources of vitamins, minerals, and fiber. They help in maintaining a

**5. A. List and explain methods of creating Genetically modified crops.**

**B. Justify the need for growing GMO crops for human and animal consumption 5+2.5+2.5**

**Ans 5.**

Genetically modified (GM) crops are created through a process where the genetic makeup of a plant is altered to introduce new traits or enhance existing ones. This is achieved through several methods:

1. **Transgenic**

**6.A.Write a note on Distance Medical Technology-what it is, its advantages and disadvantages.**

**B. Bring out examples of the application of Artificial Intelligence in Healthcare. List Advantages and Disadvantages with examples. 5+5 10**

**Ans 6.**

Distance Medical Technology, also known as Telemedicine, refers to the use of telecommunication and information technologies to provide clinical health care from a distance. This field has evolved rapidly with advancements in technology, offering new and innovative ways to deliver medical care.

**Distance Medical Technology**

Distance Medical Technology enables healthcare professionals to evaluate, diagnose, and treat patients remotely using telecommunications technology. This approach is especially useful in regions