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| **SESSION** | **NOVEMBER 2023** |
| **PROGRAM** | **BACHELOR OF BUSINESS ADMINISTRATION (BBA)** |
| **SEMESTER** | **IV** |
| **COURSE CODE & NAME** | **DBB2204 – ENVIRONMENTAL SCIENCE** |
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**Assignment Set – 1**

**1. What is the role of water cycle in our ecosystem? Explain how it affects ecology and society? 5+5**

**Ans 1.**

The water cycle plays a pivotal role in our ecosystem, impacting both ecology and society in profound ways. This cycle, also known as the hydrological cycle, is the continuous movement of water on, above, and below the surface of the Earth. It involves several key processes: evaporation, condensation, precipitation, infiltration, runoff, and subsurface flow. Each of these processes is crucial in maintaining the balance and health of our ecosystems

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**2. What is sustainable development? Explain the three principles of Sustainability with two examples. 5+5**

**Ans 2.**

Sustainable development is a holistic approach to progress that seeks to balance environmental, social, and economic needs to ensure a healthy, viable, and equitable society for present and future generations. It is rooted in the understanding that development must meet the needs of the present without compromising the ability of future generations to meet their own needs.

**Three Principles of Sustainability**

**1. Environmental Sustainability**: This principle emphasizes the need to protect and manage

**3. Describe the Spheres of Earth and their properties. 10**

**Ans 3.**

The Earth is composed of several distinct layers, each with unique properties and functions. These layers are typically divided into the following:

1. **Crust**: The Earth's crust is the outermost layer, varying in thickness from about 5 kilometers under the oceans (oceanic crust) to about 70 kilometers under the continents (continental crust). It is primarily made up of light elements like silicon,

**Assignment Set – 2**

**4. Define air pollution and effects of air pollution with examples. 10**

**Ans 4.**

Air pollution refers to the presence of substances in the atmosphere that are harmful to living beings or the environment. These pollutants can be solid particles, liquid droplets, or gases, and they can be natural or man-made. The effects of air pollution are far-reaching and can impact both health and the environment in various ways.

**Health Effects**

One of the most direct effects of air pollution is on human health. Pollutants like particulate

**5. State the consequences of soil pollution on future generations and suggest control measures. 10**

**Ans 5.**

Soil pollution, a critical environmental issue, has far-reaching consequences on future generations and requires effective control measures to mitigate its impact.

**Consequences on Future Generations:**

1. **Health Risks**: Soil pollution primarily affects human health. Contaminants like heavy metals, pesticides, and industrial wastes can accumulate in the soil, entering the food chain through crops and livestock. This bioaccumulation leads to various health

**6. Define solid waste. List the types of solid waste. Come up with a plan for management of solid wastes. 3+3+4**

**Ans 6.**

Solid waste refers to any discarded or abandoned material. This encompasses a wide range of substances discarded by households, industries, and other entities. It includes materials that are not liquid or gaseous and can be classified based on their origin and composition.

**Types of Solid Waste**

1. **Municipal Solid Waste (MSW):** This is commonly known as trash or garbage. It includes everyday items like product packaging, grass clippings, furniture, clothing,