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| **SESSION** | **JULY 2023** |
| **PROGRAM** | **BACHELOR of business administration (BBA)** |
| **SEMESTER** | **IV** |
| **course CODE & NAME** | **DBB2204 – ENVIRONMENTAL SCIENCE** |
| **CREDITS** | **4** |
| **nUMBER OF ASSIGNMENTS & Marks** | **02**  **30 Marks each** |

**Assignment Set – 1**

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

**Ans 1.**

**The role of water cycle in our ecosystem**

The water cycle, also known as the hydrologic cycle, is a fundamental process that circulates water through the Earth's atmosphere and surface, maintaining an equilibrium that sustains life. Its primary components include evaporation, condensation, precipitation, and collection.

Water from oceans, rivers, and other bodies evaporates due to the Sun's heat. This vapor rises, forming clouds in the process of condensation. As these clouds move and interact with atmospheric conditions, they release water as precipitation—rain, snow, sleet, or hail. The water then returns to the Earth's surface, filling water bodies and nourishing terrestrial ecosystems. Some of it infiltrates the ground, replenishing aquifers in what is known as groundwater

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

**Ans 2.**

**Sustainable Development**

Sustainable development is a multidimensional concept that integrates economic, social, and environmental concerns to ensure that we meet the needs of the present without compromising the ability of future generations to meet their own needs. Rooted in a vision of a world where economic growth, social inclusivity, and environmental protection go hand in hand, it aspires to create a balance among these three dimensions to produce long-term benefits for all.

**Three**

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

**Ans 3.**

The Earth is composed of several distinct spheres, each with its own unique properties and characteristics. These spheres interact with one another and collectively create the dynamic environment of our planet. The primary spheres of Earth include the lithosphere, atmosphere, hydrosphere, biosphere, and

**Assignment Set – 2**

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

**Ans 4.**

Air pollution refers to the contamination of the Earth's atmosphere by harmful or toxic substances, primarily resulting from human activities and natural processes. These pollutants can be in the form of gases, particles, or biological molecules and can have detrimental effects on

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

**Ans 5.**

**Consequences of Soil Pollution on Future Generations:**

1. **Health Impacts:** Contaminated soil can lead to the ingestion of harmful chemicals through food crops. This can result in chronic health issues such as cancers, organ damage, and birth defects.
2. **Loss of Biodiversity:** Soil pollution can reduce the number of beneficial microbes in the soil, which play a role in nutrient cycling. This can also lead to the death of certain plants and animals, causing an

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

**Ans 6.**

**Definition of Solid Waste:**

Solid waste refers to the range of discarded materials that come from various sources and are not in a liquid or gaseous form. It encompasses a diverse set of items that society no longer finds useful or necessary. Solid waste might result from domestic, commercial, industrial, and agricultural activities. It is essentially the unwanted or discarded materials that need appropriate disposal or