**SESSION SPRING 2024**

**PROGRAM BACHELOR OF ARTS SEMESTER II**

**COURSE CODE & NAME OBAC202 ENVIRONMENTAL STUDIES**

**CREDITS 4**

**Assignment Set – 1st**

**Questions**

**1. Define Ecosystem. Explain the Function and Structure of Ecosystem. What is the importance of Food Chains and Food Webs in the environment?**

**Ans:** An ecosystem is a community of living organisms (plants, animals, and microbes) interacting with each other and their non-living environment (air, water, and mineral soil) within a specific area. These interactions form a complex web of relationships that sustain the ecosystem's processes and functions.

**Structure of Ecosystem The structure of an ecosystem can be divided into two main components:**

**Biotic Components:**

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**2. Discuss five types of Renewable Resources. Write down the advantages and disadvantages of using Renewable Resources.**

**Ans: Types of Renewable Resources Solar Energy Advantages:**

Abundant and widely available. Clean and produces no greenhouse gases during operation. Reduces electricity bills and provides energy independence. Low maintenance costs after installation.

**Disadvantages:** Intermittent energy source, dependent on weather and time of day. High initial installation costs. Requires large areas for solar farms. Energy storage solutions (like batteries) are needed for non-sunny periods, which can be expensive.

**Wind Energy Advantages:** Clean and produces no air pollution or greenhouse gases. Low

**3. What is the effect of Air Pollution on the Environment? List out five different effect with short explanation.**

**Ans:** Air pollution has far-reaching effects on both the environment and human health.

**Here are five significant environmental impacts:**

**Global Warming and Climate Change:** Air pollution contributes to the greenhouse effect by releasing greenhouse gases such as carbon dioxide (CO2), methane (CH4), and nitrous oxide (N2O). These gases trap heat in the atmosphere, leading to global warming and climate change. This disrupts ecosystems, alters weather patterns, and accelerates the melting of polar

**Assignment Set – 2nd**

**Questions**

**4. Explain the various reasons for Population Growth. Discuss how it affects our Environment.**

**Ans:** Population growth is influenced by a variety of factors, including birth rates, death rates, immigration, and emigration.

**Here are some key reasons for population growth:**

**High Birth Rates:** In many regions, particularly in developing countries, birth rates remain high due to cultural, social, and economic factors. Large family sizes may be desired for

**5. Write about the Integrated Approaches to Address Urban Energy Challenges. Discuss two Strategies for Water Conservation.**

**Ans:** Integrated Approaches to Address Urban Energy Challenges Urban areas face numerous energy challenges, including high energy demand, air pollution, and greenhouse gas emissions.

**Integrated approaches that combine technological, policy, and behavioural strategies can help address these challenges effectively:**

**Energy Efficiency Measures:** Implementing energy-efficient building codes and standards for new construction and retrofits can reduce energy consumption in residential, commercial,

**6. What are the Challenges in Addressing HIV/AIDS amid Population Growth? Write two important Strategies for Addressing HIV/AIDS in the Context of Population Growth.**

**Ans:Addressing HIV/AIDS amid population growth presents several challenges, including:**

**Increased Vulnerability:** Rapid population growth, particularly in urban areas and among marginalized populations, can exacerbate vulnerability to HIV/AIDS. High population densities, inadequate healthcare infrastructure, limited access to prevention and treatment services, poverty, and social inequalities can all contribute to higher HIV transmission rates.

**Strain on Healthcare Systems:** Population growth places additional strain on healthcare