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|  | **BAHRIA UNIVERSITY, (Karachi Campus)**  *Department of Software Engineering*  **Assignment 3 – Fall 2021** |  |

COURSE TITLE: Pakistan Studies & Global Perspective COURSE CODE: Pak-103

Class: BSE- 3 A&B Shift: Morning

Course Instructor: Ms. Rani Kiran Time Allowed:

Submission Date: 19.01.2022 Max. Marks: 10 Marks

Assignment 3: CLO-3 [10marks]

Write a Assignment on any topic of your choice related to ‘Social or Economic Problems of Pakistan and the way forward’ and represent this Assignment on your class.

Guidelines:

* What essentials you add to add your assignment are:
* Identification and evaluation of any one contemporary (social, political, environmental, and economic) problem of Pakistan.
* Proposed solution / Prospects.
* Make sure your topic is approved by the teacher before writing the assignment.
* Use reliable sources for references.
* Same topic can’t be taken by multiple students.
* Follow the pattern as described during the class

**WATER SCARCITY IN PAKISTAN**

**Water Scarcity:**   
In simple terms, water scarcity refers to insufficient or depleted freshwater resources that can no longer meet a region's typical water demand.

**Water Scarcity Crisis:**   
Humans across the planet are facing a water scarcity catastrophe. Human activities are completely to blame for the emergence of this issue. Naturally, certain locations are water-scarce, while others have plentiful freshwater supplies. However, as the world's population grows, so does the demand for freshwater.

**Water Scarcity Crisis in Pakistan**:  
Along with many other environmental concerns, Pakistan's water scarcity situation is the most pressing issue that cannot or must not be overlooked. A large section of the population in the country lacks access to freshwater resources. People in Sindh and Balochistan are suffering from severe water shortages. The press frequently reports that the government will build desalination facilities to meet water demand, particularly in arid areas, however the administration's stated intentions have yet to be implemented.

**CAUSES OF WATER SCARCITY CRISIS IN PAKISTAN**  
The causes of Pakistan's water scarcity situation are listed below.  
  
**1.**[**Climate Change**](https://www.envpk.com/climate-change-and-its-impact-on-pakistan/)**:** Climate change is putting a strain on Pakistan's freshwater resources. Extreme weather events are causing water scarcity in the country.  
  
**2. Inadequate Water Management**: In Pakistan, there are insufficient managerial methods. One example is the ancient conventional irrigation system.  
  
**3. Depleting Aquifers:** Due to the enormous demand for water, subsurface aquifers are not being refilled.

**4.**[**Water Pollution**](https://www.envpk.com/water-pollution-sources-effects-and-control/)**:** Industries pollute neighboring freshwater resources like rivers, canals, and streams. Unchecked industrial drainage is poisoning freshwater resources.

**5. Political Crisis:** Pakistan's political conflicts are one of the key reasons of the water scarcity crisis. Over water disputes, Pakistan and India signed the Indus River Treaty.  
  
 **6. Urban Housing Schemes:** The water scarcity situation is exacerbated by urbanization. Freshwater availability is jeopardized by the construction of new housing developments.

**EFFECTS OF WATER SCARCITY CRISIS IN PAKISTAN**

Water scarcity causes a slew of additional issues. The following are some of the consequences of Pakistan's water scarcity situation.  
  
**1. Lack of Drinking Water:**Drinking water will become scarce due to water scarcity. Many individuals in the country are unable to obtain safe drinking water.

**2. Less Crop Yield:** Water scarcity in Pakistan has already harmed Pakistan's high crop production. Crop yields that are lower result in economic instability and food insecurity.  
  
**3. Urban Sprawl:** Due to a lack of freshwater resources, people are flocking to urban regions to take advantage of the services provided.  
  
**4. Loss of Wetlands:** Water scarcity is also hazardous to the environment's long-term sustainability. Wetlands are lost because of water scarcity.  
  
**5. Insufficient Sanitation:** People lack adequate sanitary facilities because of water scarcity, and health concerns related to water-borne infections are frequent.

**SOLUTIONS TO WATER SCARCITY CRISIS IN PAKISTAN**The remedies to Pakistan's water scarcity crisis are outlined below.  
  
**1. Improved Irrigation System:** There is a huge need to upgrade irrigation systems and keep up with new technology.  
  
**2. Construction of Water Reserves:** Water can only be saved by building water reserves such as dams, canals, and other similar structures.  
  
**3. Awareness through**[**Save Water**](https://www.envpk.com/10-easy-and-practical-tips-tricks-and-ways-to-save-water/)**Campaigns:** "Save water campaigns" should be used to raise public awareness of the water scarcity situation.  
  
**4.**[**Rainwater Harvesting**](https://www.envpk.com/rainwater-harvesting-project-lahore-why-we-need-more/)**:** One of the possibilities for water saving is a rainwater gathering system.  
  
**5. Water Management/ Water Conservation:** A recommended solution to the water constraint crisis is water conservation through adequate water management systems.

**6. Sea Water Desalination Plants:**Seawater desalination facilities can assist alleviate the problem of water scarcity in Pakistani coastal areas where fresh drinking water is scarce.  
  
**CONCLUSION**:  
Pakistan is on the verge of running out of freshwater resources, but it has not yet reached the point of being water scarce. The answers to the water scarcity situation have been offered, and strong application and follow-up are required to reverse this trend. Unfortunately, economic crises obstruct progress. Individuals and households can make a significant difference by practicing water conservation.