

Why?

Don't Waste Water even if you were at Running Stream"

I - Introduction

II - Contemporary status of water availability all over the world.

A - 4 billion people - almost 2-3rd of world's population - experience severe water scarcity for at least one month each year. - UNICEF

B - 703 million people lack access to clean water — According to World Vision

C - Over 2 billion people live in countries where water supply is inadequate. (UNICEF)

D - By 2040, roughly 1 in 4 children worldwide will be living in areas of extremely high water stress. (UNICEF)

III - Situation of water crisis in Pakistan:

A - 143 MAF water flows through Pakistan but it stores only 14.5 MAF. (UNICEF)

B - Pakistan's per capita annual water availability from 1500 m³ in 2009 to 107 m³ in 2011 (IMF)

C - Pakistan ranked 3rd among countries in world facing acute H₂O shortage (UNDP)

Time : 01 : 30. → outline + Introduction.

IV- Water plays a significant role in our lives.

A- Biological importance of water:

- 35/40
- i) Water plays a significant role in homeostasis and thermoregulation.
 - ii) Protection of tissues and organs of body take place with the help of water.
 - iii) Water helps the body in digestion, absorption, transportation of Oxygen and Nutrients, and removal of waste products from body.
 - iv) Water is a crucial substance for maintenance of health and body.
 - v) Almost all reactions are hydrophilic in nature ^{body}.

B- National and International Importance of water:

- 90/110
- i) Water is necessary for the sustainability of not only individual's life but also animals and plants' life.
 - ii) Agricultural process is incomplete without water.
 - iii) Water plays a critical role in energy and food production.
 - iv) Socio-economic development is flawed without the proper availability of water.
 - v) Water maintains the natural ecosystem by preventing the severe impacts of climate change.

V- Water Saving Techniques and innovative solutions to save water for sustainable futures

- A- Water-leaks must be well managed ^{to prevent} ~~so that~~ groundwater from mixing with contaminated one.
- B- Drip-irrigation system must be introduced to farmers to inhibit the excessive loss of water.
- C- Water must be used like a precious gem that cannot be found ^{considered} if once lost.
- D- Proper dams and barrages must be constructed to conserve water.
- E- Siltation of dams must be removed to maintain their storage capacity of water.
- F- Proper campaigns, seminars must be conducted and raise by raising particular slogans to aware people the real significance of fresh water.
- G- Install low-flow fixtures within infrastructure to reduce the use and wastage of water.
- H- Grow water-tolerant plants i.e. cactus within the house.
- I- Get maximum advantage of rain water by conserving it for future use.

VI- Conclusion.

"Thousands of us can live without
love but no one without water"

W.H. Auden.

At present circumstances, the disturbing trend of water crisis is increasing instead of diminishing. If words can cool down the situation then writers would be very busy these days. Wasting water is draining the future. So, the water must be saved to quench the thirst of future.

A famous slogan "don't let the water run in the sink, our life is on the brink" must be accepted to conserve the water and to save the future. The contemporary global issue is the water crisis, this issue must be resolved to maintain and sustain the life of on planet 'Earth'. As Sylvia Earle said "No water, no life, no blue, no green".

Not only to maintain the life on earth but also to sustain the greenery ^{over} on it, water must be conserved. As Holy Prophet (ﷺ) has said that if you are sitting on the bank of river and you need ^{want/feel} to ablute yourself, you must take enough water. Water is driving force of the nature that

is the reason why it is said that do not waste water ^{even} if you were at running stream. Nowadays, the whole world is facing water issues. But however water is of utmost importance for the survival of life and also of greenery. Science has much developed that it ~~find~~ has found out the biological importance of water. While other organizations such as IMF, UNICEF, UNDP, World Bank etc have tried to know the international, national and global significance of water, i.e. in agricultural process, energy and food production, climate change etc. There must devise some strategic techniques to conserve water such as inhibition of water-leakage, introduction of drip irrigation system, careful use, proper construction of dams and barrages, removal of siltation of previously existing dams, installation of low-fixtures within the infrastructure, growth of water-tolerant plants and create awareness among masses through different means.

2 hrs

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Remaining
essay.

Currently, the world is facing the crisis of water in terms of

Severe water scarcity, water availability and pure water supply. Water conservation is now becoming a global threat as it has been predicted that if the 3rd world war occurs, it will be on the issue of water. (UNO).

"Water scarcity is fast becoming a global issue and a major challenge in 21st century"

Kofi Annan.

According to United Nations International Children's Emergency Fund, four billion people - almost two-third of world's population experience severe water scarcity. For at least one month each year. By this report, it can be estimated that how much the issue of water crisis becomes severe.

There is also a large number of masses that are suffering from the conditions of unhygienic and contaminated water availability, means that they have availability of water but not clean water. According to the report of world vision, 703 million people lack access to clean water.

Some regions in the world are also ^{located} present where the supply of water is inadequate. According to UNICEF, over two billion people live in countries where water supply is inadequate. So, this severe condition leads to the situation towards more critical phase.

The countries are classified into three major categories on the basis of water availability. That classification is as follows:

- 1- water abundant countries.
(Countries having more than 1600 m^3 water availability)
- 2- water stressed countries.
(countries having the range of water availability between 1000 m^3 — 1600 m^3)
- 3- water scarced countries.
(Countries having water availability of less than 1000 m^3)

According to UNICEF report, roughly 1 in 4 children worldwide will be living in areas of extremely - high water stress by 2040.

Nowadays, Pakistan is also suffering

from critical water-stressed conditions. According to a report published by UNICEF, almost 143 million acres foot water flows through the territory of Pakistan but it stores only 14.5 million acres foot of water. This report suggests the inefficiency of Pakistan in maintaining and conserving the fresh water.

Pakistan's per capita annual availability of water is decreasing day by day which shows that Pakistan is moving towards water-scarce countries. According to a report of IMF, At the time of independence, the availability of water was 5600 m^3 , in 2009, it became 1500 m^3 while in ~~2011~~²⁰²¹, it lowered down to 1017 m^3 only. Now Pakistan is considered as the water stressed country but after some time, it will be included in the list of water scarce countries.

Nowadays, many countries facing severe shortage of water availability. A report of UNDP said that Pakistan ranked 3rd among countries facing acute water shortage.

"When the well is dry, we know
the worth of it"

Benjamin Franklin.

Water plays a crucial, significant and important role in life. Without water, it is really impossible to imagine life on earth. According to scientific advancement, it becomes more obvious the role of water in individual's life. Whenever the discussion of regulation of body temperature occurs, the particular role of water will also be discussed. Water plays important role in maintenance of salts, fluids, temperature of a body.

An individual body contains 60% water while a newborn baby contains 80% water. This water plays very significant and principal role in protecting the tissues and other body organs such as brain, kidney, liver, stomach, and even bones and skin.

Water is the chief substance that regulates the body by accomplishing its major functions like digestion, absorption of

food, transportation of Oxygen and nutrients from one organ to another organ and the process of excretion is also metabolize in the presence of water.

An individual's health and body remain maintained in the presence of water.

'Water is the driving force
of all the Nature'

Leonardo da Vinci

Whenever, it is seen the chemical reaction occurring within the body, then it will be observed that all the reactions are water-dependent. No one can imagine how the life would exist in the absence of water.

Water is that precious gem that is equally important for not only humans but also animals and plants. If the world suffers the scarcity of water, the plants and animals will also perish along with human.

Water is also major contributing factors in maintaining the agricultural

process of a country. Pakistan is utilizing almost 90% of its water in agricultural process while the rest of the world uses 70% of water in agricultural advancement. This is just because of improper irrigation system and growing of such crops that absorb more water to grow.

Energy production such as hydroelectricity is performed just because of the presence of water. If the water is unavailable then such turbine will stop and no further energy production through water will occur. Similarly, food production is also occurred just because of availability of water. The process of photosynthesis mainly require water and carbon dioxide and also the availability of sunlight. If sunlight and carbon dioxide are present ~~but~~ there is no water then no photosynthesis will occur, so, the production of food will be inhibited.

Water-cycle plays role in maintaining the availability of water, if that availability

is disturbed then it is impossible to drive the cycle of socio-economic development. This could be understood by considering the example of production of food. If the water is not available, then food will not be produced due to absence of photosynthesis thus hindering the international and global cycle of food marketing. Thus in this way, the socio-economic development will be affected.

→ Climate change poses severe threats to the world especially some most vulnerable countries including Pakistan which contributes less than 0.09% in the global warming but is affected severely by the climate change. The unavailability of water will affect the climate change severely by causing droughts, or extreme rainfall.

There are some techniques and innovative strategies that must be adopted to conserve water and to make a healthy future. First of all, ~~clean~~ under-ground water must be conserved.

by separating it from the contaminated water by paving the water-leaks of waste, unhygienic water. This step will help the availability of clean and drinkable water for long time.

The farmers due to unawareness use flawed irrigation system to water their crops. So, ~~they~~^{there} must be introduced some such a system that limitize the use of water according to the need. For example, the introduction of drip-irrigation system is a efficient step to water the crop according to the need of that crop.

"No water no life
no blue no green."

Sylvia Earle

Water is like that gem which once lost cannot be achieved again. So water must be conserved. water conserving strategies must be followed such as turn off the running tap when it is not in use, do not waste water even you were at running stream.

As the famous slogan says,

Total

3 hrs

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'Turn off the tap and turn on the future'

To conserve water, proper dams and barrages must be constructed. Large dams are usually inefficient so, the government must take initiative to construct many small dams at different places and locations.

The previously existing dams are almost silted with sand and clay. Mangla Dam is 25% silted while Tarbela Dam is 13% silted with sand and clay. This siltation inhibits the incoming water and decreases the storage capacity of dams and barrages. So, there should be proper system of removal of that silt, sand and clay so that the dams and barrages continue their previous storage capacity.

There should be proper campaigns, seminars or other means of awareness such as use of social media to educate the people the scarcity of available fresh water that is rampant

decreasing by raising slogans such as:

"Turn off the tap and let
the saving flow"

"Conserve the water and
save the future"

"Water is a gift so
don't let it drift away"

The next conservative initiative is the installation of low-flow fixtures within the infrastructure of house, offices and other buildings. This step ^{will} prove to be good as the quality of water is not compromised just the flow of incoming water is lowered so that there will be minimum wastage of water.

Another step is the plantation of water tolerant and water resistant plants such as Cactus. This will not compromise the 'Green Revolution' and also conserve the water. This will be considered as the best example of killing two birds with a single arrow.

Rain ~~water~~ is a natural process so, there must be some initiatives to

Conserve rain water for future use for water-stressed and water-scarce countries. This rain water can be used for irrigation, agricultural process or for other purposes in future.

The conclusion is that water is as significant for life as the soul for the body. It plays major and principal role in biologically maintenance of life and also the survival of globe as each and every thing is dependent on water such as agricultural process, energy production, socio-economic development, prevention of sudden climate change. Some innovative strategies must be followed to conserve water for future use such as blockage of water leaks, introduction of drip irrigation system, conservation of water by careful use of it, construction of new dams and removal of sand and clay from previously existing dams, the masses must be educated through campaigns, seminars and social media apps, installation of low-flow fixtures that reduce the speed

Time : 03:30

and flow of water, plantation of water-tolerant plants to increase greenery and to conserve water, conservation of rain water can also play role in maintaining the availability of water for long term use.

Questions:

Headings ?

Paragraph size same ?

Slogans ?

Intro & conclusion ?