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Q no 1

Role of education and skill development
in economic growth in Pakistan

1- Introduction:

Pakistan, a nation with significant economic potential, is at a critical juncture where the development of its human capital through education and skill enhancement is paramount. With a substantial youth population and a rapidly changing global economic landscape, the role of education and skill development becomes a central pillar in determining the country's future economic growth. While Pakistan faces numerous challenges including high unemployment rates and a workforce that often lacks the necessary skills to meet market demands, examining the current state of education system and

market. According to Nelson Mandela:

"Education is the most powerful weapon which you can use to change the world".

2- Role of education and skill development in fostering economic growth in Pakistan:

The role of education and skill development in fostering economic growth in Pakistan is multifaceted and essential.

(i) Role of Education:

Education play a fundamental role in economic growth by improving the quality of the workforce. The development of human capital through education is crucial in a nation like Pakistan, which is brimming with potential and youthful energy.

According To World Bank:

"Low public spending on education in Pakistan limit citizen's active participation in economic and

social activities and contributes to productivity and economic growth."

The country's education system is impacted by a large number of out-of-school children, high learning poverty, and challenges intensified by the **COVID-19** pandemic and natural disasters like floods. In the constitution of 1973 of Pakistan Article 25-A and 37-B tells that education is compulsory for all the people of Pakistan.

(ii) Role of skill development:

Skill development plays a crucial role in fostering economic growth in Pakistan by enhancing the employability and productivity of the workforce. It aligns the skills of workers with the evolving needs of a diversifying economy, especially in sectors like information technology, engineering and management. **TUET** (Technical and vocational education and training) are key to bridging the skill gap.

By equipping individuals with practical and contemporary skills, skill development can reduce unemployment, boost innovation, and enhance the overall competitiveness of the Pakistani economy.

3- Policies implemented to enhance the quality of the workforce and address unemployment challenges:

To enhance workforce quality and address unemployment challenges in Pakistan, the following policies should be implemented:

1- Lifelong learning and Upskill programs:

Encouraging continuous learning and upskill opportunities for the existing workforce including online education and certification programs can enhance the quality of the workforce and address the unemployment.

(iii) Support Entrepreneurship:

By supporting entrepreneurship we enhance the quality of workforce because it provide funding, mentorship and resources to encourage startups and innovative projects, which can create new jobs and drive economic growth.

(iii) Implement Job creation strategies:

Government initiatives aimed at generating employment opportunities across various sectors including emerging industries to increase employment rate and workplace for the people of Pakistan.

(iv) Professional development for educators:

Pakistan should have to offer training and development programs for teachers to enhance the quality of teaching and there should be professionals

who give training to the teachers who are the builders of the nation.

(v) Increase Educational Investment.

In enhancing the quality of the workforce and unemployment to decrease, government has to boost funding for education particularly in undeveloped areas, to improve infrastructure and resource availability.

(vi) Curriculum reform:

One of the important policy that is implemented is to modernizing the curriculum to incorporate skills relevant to the evolving job market, such as digital literacy, critical thinking and problem solving.

4- Conclusion:

It is to be concluded that education and skill development play an important role

in the progress of any nation. Enhancing the quality of Pakistan's workforce and addressing unemployment challenges require comprehensive and strategic policies focused on education and skill development. This involves increased investment in education, curriculum reform, professional development for educators, job creating strategies will not only improve the workforce quality but also stimulate economic growth, fostering a bright future for Pakistan.

Question no 3

Water management and Conservation

1- Introduction:

Pakistan is currently facing a diverse water shortage. According to the Indus river system authority, the water shortage in the country is first estimated

at 22 percent that is actually 38 percent. Urbanization and population growth put immense growth pressure on domestic water supplies. The burgeoning population, coupled with urban expansion has placed immense pressure on Pakistan's water supply, leading to a situation where the demand far exceeds the available resources. As cities grow and the need of domestic water increases, the urgency to develop effective water management strategies has never been more pronounced. According to J.Y Cousteau:

"Overconsumption and overpopulation underlie every environmental problem we face today."

2. Policies Pakistan implement to enhance domestic water management, promote conservation and ensure access

To clean water for its growing population:

To enhance domestic water management, promote conservation and ensure access to clean water in the face of urbanization and population growth, Pakistan could consider implementing a comprehensive set of policies:

(i) Integrated water resources management (IWRM):

Adopting IWRM practices helps in coordinating the development and management of water resources to maximize economic and social welfare without compromising the sustainability of vital ecosystems.

(ii) Public Awareness and education:

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about the importance of water conservation and efficient use can lead to more responsible behaviour. This includes campaigns to promote water-saving techniques in households and industries.

(iii) Improve infrastructure:

Upgrading water supply and distribution infrastructure to reduce losses from leaks and inefficient systems. This can involve improving sewage and waste-water treatment facilities.

(iv) Rainwater Harvesting:

Encouraging rainwater harvesting in urban and rural areas can reduce dependence on ground water and surface water resources which help in water conservation.

(v) Regulation and pricing of Water:

Implementing policies

to regulate water use in various sectors including agriculture (which often consumes the majority of water resources), and adopting a fair pricing strategy to discourage wasteful use.

(vi) Watershed Management:

Protecting and rehabilitating watersheds and aquifers to maintain and improve the quality and quantity of freshwater resources.

(vii) Policy and institutional reforms:

Strengthening the legal and institutional framework governing water resources to ensure effective, equitable and sustainable management.

3- Conclusion:

In a nutshell, Urbanization and population growth put immense pressure

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on domestic water supplies but it can be managed by different policies to implement in Pakistan. Implementing these policies require a government approach that address all these and reforms can ensure access to clean water for growing population.