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## Question No 2

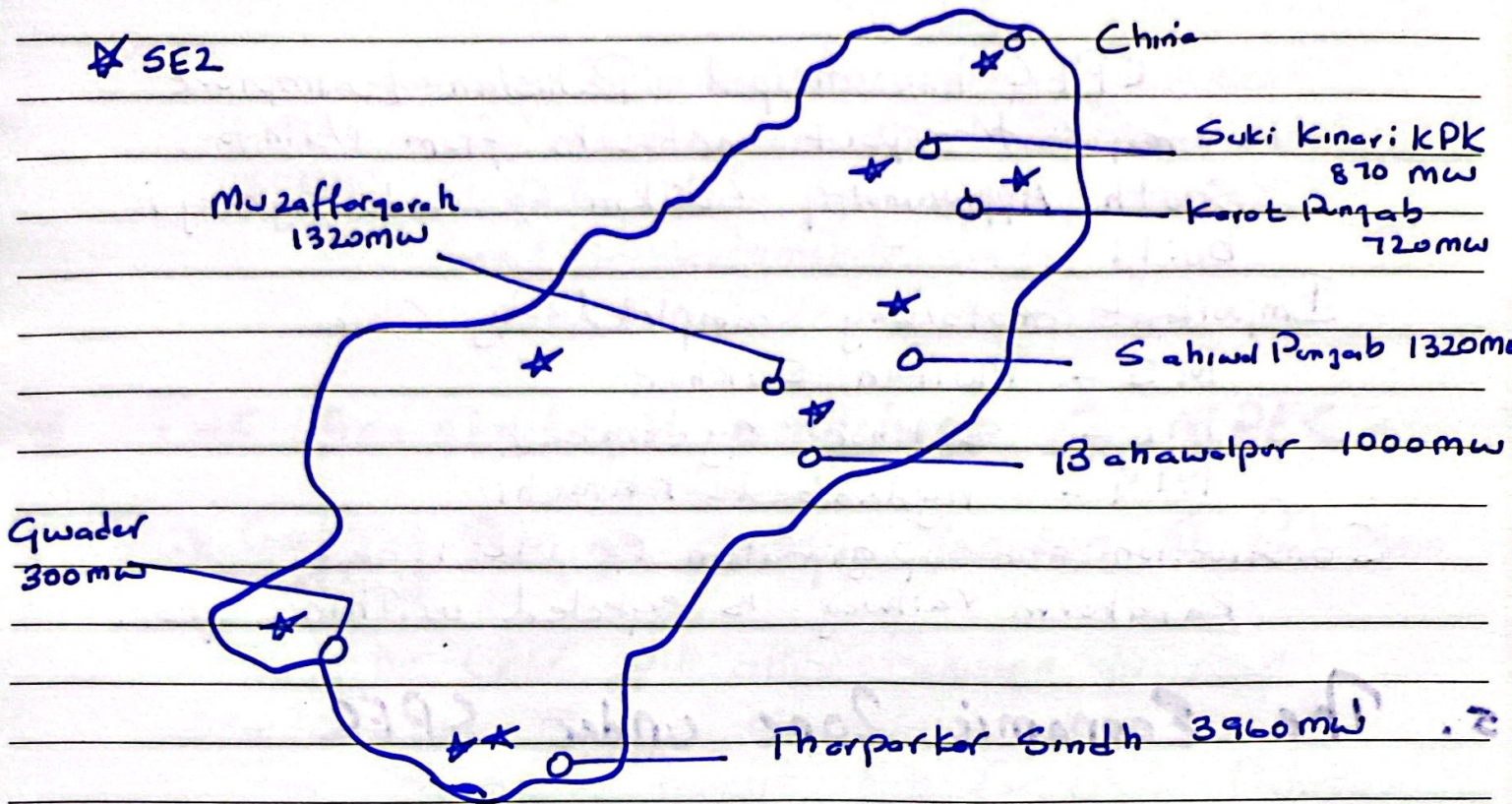
CPEC has been underway for a decade. Critically evaluate its ambitions and realities.

### 1. Introduction

CPEC is the flagship project of BRI. It is an infrastructural project constructed by China primarily for Pakistan and China and entire world. It is an investment worth \$36 billion which is going to transform Pakistan's Social, Technological, Economic, Infrastructure and Security concerns. The foundation of the project was laid in 2013. The project was divided into four parts, The early harvest, Phase I, II and, III. Over the years the relationship of Pakistan and China has evolved positively defined as 'All time Tested Strategic Cooperation'. The conceptual framework of CPEC is based on 1+4, with center being the Gwadar port followed by transport, infrastructure, energy and industrial cooperation as the four keys. China wants to revive its silk route glory and overcome the problem in South China Sea by Malacca Dilemma. Moreover, building of CPEC also provides the shortest trade route to China.

Date

## 2. An Overview of CPEC & its projects.



## 3. THE Energy plans <sup>in</sup> CPEC project.

Through CPEC, Pakistan aims to overcome its energy deficiency and constructing power plants and dams. Under CPEC, 17045 MW energy is to be produced. 8000 MW of capacity is added to the transmission line.

Important projects of energy under CPEC

Suki Kinari power plant	886 MW
Sahiwal Coal	1320 MW
Port Qasim	1370 MW
Thar	3760 MW
Jhinpir Wind	500 MW

Date

#### 4. THE Infrastructure under CPEC

CPEC has helped Pakistan to improve its major transport networks from North to South. Approximately 600km of roads, highway is build.

Important motorway completed by China.

M5 - Multan Sukhor

M6 - Sukhor - Hyderabad.

M9 - Hyderabad - Karachi

Construction and up gradation of ML-1 and Karakoram railway is expected within a year.

#### 5. The Economic Zone under CPEC

There are 9 special economic zone which will provide a source of Foreign Direct Investment for Pakistan. It is also expected to create job opportunities and counter the rising unemployment rate.

6 industry are being constructed in these SEZs. These are tax free and will attract the Foreign Investors.

The Special Economic Zone has created 192000 jobs. [CPEC website]

## 6. The Technological Zone under CPEC

- Construction of Technological university in Gwadar
- Investment in Pakistan freelance industry
- 5G Technology is in pipeline
- Investment in automobile sector
- Karachi to Gwadar optic fibre.

## 7. THE geo strategic ambitions of CPEC

### i) Tapping The geo strategic location of Pakistan

The CPEC will allow Pakistan to reap benefits from its geo strategic location as it can become a transit hub for trade. Pakistan can be a regional player if the use of Gwadar port is maintained.

### ii) Tapping The economic gain by CPEC

CPEC is the source of FDI enhancing exports, creation of jobs and boost trade.

It is expected that the trade volume will increase by 2-2.5% between 2015-2013 (DAWN, 2023).

Creation of 9 million jobs.  
192000 jobs are provided

Date

### iii) Reduce in terrorism

Rising inflation and unemployment are the key for terrorism. Therefore, by developing of CPEC will help to boost prosperity and overcome the problem of insurgency.

### iv) Tapping the Energy market.

Under CPEC 8000 GJ of energy is added to the transmission. Pakistan pay high price of import for oil, The developing of energy sector will help to maintain the wider trade deficit.

### v) Improved connectivity through development of Infrastructure

The improved connectivity projects will provide Pakistan to tap new markets. Therefore, it will also enhance fast and effective movement of goods and services. The Central Asian countries are landlocked and providing an access to them can be a game-changer for Pakistan.

vi) Can help to strengthen Pakistan relations with other country

As Pakistan will become a transit hub for international market, this will help to improve Pakistan's relation with neighbouring countries and also improve the image of Pakistan in global arena.

## 8. THE CHALLENGES FACED BY CPEC.

i) Geopolitical & Security Risks

The security risks have always remained high. CPEC is facing security risk by the revival of terrorism in Pakistan. TTP and BLA are the two most prominent groups which carry out militant attacks in Pakistan, hindering the progress of CPEC.

ii) Political Instability

The frequent change in regime, hampers the development of CPEC. As new government which comes in power establish their own policies which result in delaying of the projects of CPEC.

Date

### iii) Instability in Afghanistan

Instability in Afghanistan has been the major hurdle in the development of CPEC and BRI. Stability in Afghanistan will provide Pakistan an opportunity to connect with Central Asian Region.

### iv) Proxy war played by India

Since the inception of Pakistan, India is playing proxy war in the region which is destabilizing CPEC and economic growth of Pakistan. India used Iran Chabahar Port as a surveillance to monitor CPEC progress. Apart from it India support terrorist organization which bring instability.

### v) Quader "Hej Do Tehreek"

The protestors are demanding a reduction in security checkpoints in the area, an end to deep sea fish trawling that they say has depleted their catches. Many residents of Quader consider the developments port of the problem.

Date

## 9. THE POTENTIAL OF CPEC FOR CHINA.

### i) Shortest Trade Route

China is the major oil importer from Middle East region. The CPEC project, provides China with a shortest trade route of 3000km, where the South China Sea provides a route of 12000km.

### ii) Safe shipping of energy vessels

As there is growing nuclear alliance in the South China and Indo Pacific, there is a threat that in case of war, the route of Malacca Strait can be blocked, leading to restricting China's access to oil and other goods.

### iii) Development of Western Region

There is an insurgency and separatist movement in the Western Region of China. Developing that region will help China to overcome from separatist and insurgency.

### iv) Enhance Trade and new market

CPEC is the flagship project of BRI. The completion of CPEC project will provide China to connect with other countries providing new growth and economic opportunities.



Date

## 10. THE POTENTIAL BENEFIT OF CPEC TO PAKISTAN

### a) helps in regional connectivity

CPEC is the flagship project of BRI. The flagship store of CPEC will provide regional connectivity to Pakistan with CARs. This will help Pakistan to enhance its trade and provide new trade and investment opportunities in the landlocked areas.

### b) Help in development of Infrastructure under CPEC

In the first phase of CPEC, the development of CPEC were made entered so that easy communication for transportation can be provided. CPEC has enhanced the infrastructure of roads, highways, railways.

### c) Overcome energy crisis

In the first phase of CPEC energy crisis infrastructure was resolved. CPEC Under CPEC 8000MW of energy is installed in the grid and several projects are in process to overcome the energy crisis of Pakistan.

Date

#### d) Act as a transit route for International Trade

The geostrategic of Pakistan keeps it in International limelight. Pakistan provides a central gateway to Middle east and South East Asia. With the development of BRI, CPEC can act as a transit economy which will attract foreign investors sight similarly how Singapore has attracted the world.

#### e) Helps to improve the economy and socio-economic problems

CPEC is a game changer for Pakistan's economy. It will help to address unemployment, poverty and inflation in the country. Under CPEC it promises to provide job opportunities for 2.2 million people. The development of vocational institute will help to cater the unemployed youth of Pakistan. Acting as a transit economy will help the supply inflow of dollar currency causing stability in the country.

Date

Write a comprehensive note on The growth of population in Pakistan and underscore its effects on the country's socio-economic climate.

## 1. Introduction

Since the inception of Pakistan, Pakistan has faced multiple threats like political instability, hostile neighbours, rising inflation, mounting debts and the growing population of the country. If the population of the country grows at this rate it will surely become a challenge for country to meet the rising needs of population with limited resources. The rising effects of population impacts socio-economic conditions like climate change, unemployment, rapid urbanization, increase in pollution and diseases. Pakistan is ranked as the fifth most populated country in the region (PAWN, 2023). The country which lies at the strategic location of Arabian sea is vulnerable to threats of climate change and is ranked among the top 10 countries to climate change which is induced by humans. Moreover, the rising population of Pakistan also threatens rising gender disparity and brain drain problems.

Date

## 2. An overview of population census in Pakistan

1951	33 million
1961	42 million
1972	65 million
1981	84 million
1998	133 million
2017	207 million
2023	230 million

Source: Pakistan population census

An increase of 7.1% is observed in Pakistan population from 2017 to 2023 which is the highest in Asia.

Pakistan population grows at the rate of 2.4%. (DAWN, 2023)

## 3. Effects of rising population on Pakistan socio-economic climate

a) A decline in human development due to high number of children out of school

Pakistan is the fifth most populated country with an average life expectancy of 75 years. Due to limited resources, the country cannot

Date

provide education for the masses. According to UN 22 million children are out of school which hinder the human development index of Pakistan. These children are either forced for early marriages or child labor with minimum wages. The ranking of Pakistan on Human Development Index is ~~16th~~ 1192.

## b) The rising population incites poverty

According to reports, 40% of the population in Pakistan live below the poverty line while many people don't have access to basic life needs. In the Global Hunger Index, Pakistan is ranked 99th out of 121 countries.

### i) Induces gender disparity

ii) Impacts on Agriculture sector resulting food insecurity  
The agriculture sector is the backbone of Pakistan's economy. The rising population impacts food insecurity as Pakistan already witnesses decline in its production due to climate change. Around 5 million children in ~~the~~ Pakistan are malnourished resulting in poor contribution for human development.

Date

c) The rising population of Pakistan affects the life security of individuals.

There are 15 million people in the country who do not have access to healthcare facilities. 88 million do not have access to clean water, whereas 118 million people do not have access to sanitization facilities. The sharp rise in the population is the mother of all evils as it leads to poverty, unemployment, illiteracy and other fatal diseases.

d) The impact from devastating flood on people

Rising population induces climate change as to meet the need of the population a massive urbanization is done. The rise in deforestation, increase emission of greenhouse gases has led to the threats of climate change. The flood of 2022 has resulted in economic loss of \$US 30 million followed by deaths to people life by approximately 1700 people.

Date

e) The rising population impacts employment opportunities resulting in brain drain problem

Due to limited industrialization, the employment opportunities in Pakistan are few. This encouraged skilled employees to move to another country in search of a better life style, hence resulting in brain drain problem in Pakistan. In 2022, around 3 million young generation has left the country. (DAWN News).

f) The increase in rapid urbanization impacts the health of the people

In order to meet the rising demand of the rising population, the rapid urbanization is causing a threat to lives of the people. Increase in urbanization induces climate change and Pakistan is ranked on the top five countries which is impacted by climate change. (Foreign Affairs Magazine). The massive urbanization induces diseases like water born diseases, poor Air Quality, which Lahore is currently facing. The AQI of Lahore is 272, which is alarming. Therefore, in the past the country has witnessed several climate change threats like drought, heatwaves which are all induced by humans.

#### 4. Lesson to be learned by Bangladesh

Thomas Malthus reminds that population grows geometrically while food grows arithmetically.

A lesson to be learned by Bangladesh which overcame its alarming crisis of population. Bangladesh used effective campaigns to help reduce down its fertility rate from 6.95% to 2.06% and today the country has a fertility rate of less than 2%. Moreover the country also integrated women workforce into the labor which helped country to overcome its population

crises. (ii)

Women empowerment and reproductive rights (iii)



Date

5. Policy Option to Pakistan to control the rising population of Pakistan

i) Provide education for all children especially women.

Educating women will act as a gateway for their empowerment and help to control down the rising population. Providing education for women will help in late marriages and allow women to overcome from traditional child bearing roles.

ii) Design effective campaigns to promote family planning

Forming policies with religious clerks and designing effective policies at national level to spread awareness about family planning control methods.

iii) Women empowerment and reproductive rights

When women are educated and financially independent they have access to reproductive healthcare and can make informed decisions about their reproductive choices.

iii) Healthcare and child mortality

Pakistan must invest in healthcare infrastructure, ensuring access to quality healthcare services for all citizens especially in rural areas. Reducing child mortality rate is linked with population control. Pakistan can learn from the successful effort of Bangladesh in reducing child mortality and implementing strategies to achieve similar outcomes.

Date

6. How Pakistan can reap from its rising population currently

a. Introduce skill specialized program

The development of vocational institute will help Pakistan youth to learn new skills which are high in demand outside Pakistan. These skills will help the young youth to get technical jobs outside Pakistan.

b. Increase in remittance will help to narrow down widening trade deficit

Since large percentage of Pakistan work force is employed in Middle East, Europe and USA. Their remittance will help to narrow down the trade deficit.

c. Help in gaining international experience

Gaining international experience will allow individuals to learn new skillset and apply that model in Pakistan.

d. Improves the soft image of image by more Pakistani dice quora

e. The large segment of Pakistani dice quora will help to develop and strengthen the soft image of Pakistan and provide better negotiations and investment opportunities.

Date

### Question No 3

Cyber-warfare is shifting the nature of Indo-Pak conflict in South Asia, now the cyber skirmishes have become an accepted component of contemporary hybrid clashes to assert the digital prowess against one another making the digital frontier as a new domain of national security trepidations. Elucidate.

#### I. Introduction

Since the inception of Pakistan, India is conducting cyber and hybrid proxy warfare to isolate and weaken Pakistan. The cyber warfare uses the modern technology and communication system to gain the political, economic, military, and strategic objective. Despite nuclear deterrence, cyber warfare have become an emerged security threat. India have adopted to offensive cyber warfare capabilities by modernization in military, seeking partnership with USA & Israel, and developing cutting edge military doctrine which is causing a concern for Pakistan. Moreover, the rise of nuclear arm race in Indo Pacific and USA aligning with India to counter China influence is also skirmishing the threat of nuclear war along with cyber warfare.

According to Sun Tzu: The ultimate victory in war is the one gained without bloodshed.

## II Overview of India growing cyber operations

National Informational Center

Electronic Policy

National Task force on IT

National cyber security policy 2013

Mohdi efforts towards digital India

India is heavily investing in IT sector and every year 100,000 IT graduates work in India

## III How India is Processing a threat to PAKISTAN BY CYBER WARFARE

Pakistan is ranked among the top ten countries in the world which are at high risk to cyber warfare.

### a) India attacked on Pakistani 870 websites

In 2010, India cyber army attacked 870 Pakistani websites on various events which promoted to increase threats of cyber warfare.

### b) India abrogated A 370 & 35A in 10JK

In 2019 when India abrogated A 370 and 35A unilaterally, some high ranking Pakistan officials call records were hacked.

Date

c) India run a propaganda against Pakistan in P Valley

After the fall of Kabul, when Taliban were fighting over P Valley, India developed a campaign that Pakistani intervene is also included in P Valley.

IV How historically India has attacked Pakistan through hybrid warfare

1971

The creation of Bangladesh was called by the propaganda carried out by Pakistan

Involvement of 8 Indian diplomats in CPEC & sponsoring terrorism

Ganga Hijacking Incident.

India is investing in creating offensive cyber tools & methods. According to Leon Panetta.

The potential for the next Pearl Harbor could very well be a cyber attack.

## V IMPLICATION CAUSED BY CYBER WARFARE

### i) ECONOMICAL IMPLICATION

All of the cyber attacks are financial economic motives, According to Data Breach Investigation Report 2020 K-electric company was affected by financial cyber warfare if the management failed to pay \$3.8 million in Bitcoin.

### ii) FBR system was breached

The FBR system was breached and hacked by hackers to sell the data of FBR for \$30,000.

### ii) SECURITY IMPLICATION

In 2021, Pakistan went through Pegasus cyber attack in which all phone calls of government officials were hacked.

### b) India's under sea cable influence

Due to India's wealth and population it owns a high percentage of the world's undersea cables. This undersea cable contains all the information of online passing through it. In the Parliamentary Committee hearing Pakistan, that 4 out of 7 cables can be used by India whenever they want.

Date

c) Kashmir remains a Nuclear Flash point between Pakistan and India

With growing military of India and its strategic alliance like AUKUS and QUAD are disturbing the regional peace & security. South Asia is believed to be one of the most highly risk region for the nuclear war. The abrogation of A370 and 35A and Pulwama attack in 2019 has added the threats of cyber warfare.

d) Pakistan lacks strategic depth, India is working towards the nuclear install reactors in Pakistan

Since both the countries are the nuclear state, they possess threat to one another. India is developing its training and agreement with Israel and is looking forward to join the Talpiot training program. By Orchard operation Israel had destroyed the Syrian nuclear reactors, India is also seeking to destroy the Pakistan nuclear reactor. [Foreign Affairs]

### iii) POLITICAL IMPLICATION

Cyber attack can be used to influence the political decision making and political outcome of a state as well. In 2016, US claim that Russia had intervened in conducting US election campaign.



Date

Diplomacy, India is conducting various campaigns like EU As INFO CAB, FATF greylist attempt to isolate Pakistan, use of Chabahar Port to keep a surveillance on the progress of CPEC, setting up proxy war through Afghanistan by financing TTP and BLA and by promoting Shia Sunni conflict in Pakistan.

National Security Advisor of India, Ajay Nohri has confessed to isolate Pakistan from rest of the world.

INDIA DEFENSE MINISTER ALSO CLAIM THAT, INDIA WILL SPONSOR TERRORISM TO COUNTER TERRORISM

THE THREE OBJECTIVES OF INDIA:  
HYBRID WARFARE

Damage      Dispute      Deterioration

iv) PAKISTAN IS SHIFTING TO BEIDOU MILITARY

Pakistan has used GPS system for a long time, but there are certain concerns to Pakistan national security that, as India and USA are alligning in

Date

strategic partnership, it can hinder or provide access to India of the Pakistan military position which can be a loss for Pakistan. Therefore, Pakistan is now shifted to Beidou system which is managed by Huawei 5G.

## V SOLUTION TO OVERCOME CYBERWARFARE ATTACKS FROM INDIA

### i) Implementation of Cyber Security Policy

As Pakistan came up with Cyber Security Policy in 2021, implementation of this policy should be given foremost importance before the policy becomes obsolete.

### ii) Budget Allocation

Special focus should be made for allocation of budget to this sector. Moreover funding should be made to enhance cyber capabilities by investing in R&D and IT sector.

### iii) Setting up of institute

Developing of institute with primary focus on strengthening cyber attack where students can learn more.

Date

#### iv) Creating Awareness Campaign

Campaigns should be run where people should be made aware of importance of cyberspace

#### v) Cyber Agreement with other states

As India is seeking with other state to cooperate in cyber agreement, Pakistan should also sign agreement with other countries. Signing with China can be favourable to Pakistan as China has developed strong strategy to overcome USA/India influence.