

खण्ड-A / Section-A

उम्मीदवारों को
इस भाग में
लिखना मना है।
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- Q.1 You can't serve data on a hungry man's plate.
आप किसी भूखे आदमी की थाली में डेटा नहीं परोस सकते।
- Q.2 AI is overcoming our mental limitation but not expanding our mental horizon.
ए.आई. मनुष्य की मानसिक सीमाओं को नियंत्रित रहा है, किंतु मानसिक क्षितिज का विस्तार नहीं कर रहा है।
- Q.3 We are using environment for politics, not politics for environment.
हम पर्यावरण का उपयोग राजनीति के लिए कर रहे हैं, न कि राजनीति का उपयोग पर्यावरण के लिए।
- Q.4 The worst form of inequality is to try to make unequal things equal.
असमानता का सबसे बुरा रूप है असमान को समान बनाने का प्रयास।

'You can't serve data on a hungry man's plate'

2160 CE: In a dystopian world run by Robotics and machines, there is a line of human to collect their designated bread. Vishal, being hungry for last two days is eagerly looking forward to have a loaf. Just when Vishal was about to reach the counter, the bread was over. Agony spread across the place, people started protesting. Suddenly, chips attached to their body was activated and the serotonin release from the brain calm them down.

"This is the best of times, this is the worst of times"

This Diwali, Ravi is ecstatic with his big paycheck. He is finally buying the latest driverless Tesla EV to celebrate his promotion. This car is definitely the epitome of technology geniuses and data revolution.

'Data is not just the new oil,
It is the new oxygen'

This revolution started with the evolution of Human brain that enables to manipulate the natural environment and enhance cognitive abilities. Alan Turing's discoveries put feather to the impulse which subsequently led to computers and then to the world of Internet. And of course, there was no coming back from there.

Today we are in a data age.

Data is getting produced and processed at fingertips. There are various devices like mobile phones, Computers, Smartwatches which are generating unprecedented amount of data. Though data was getting collected since time memorial by governments, agencies through census and surveys, the scale is uncanny.

"Where are they keeping all this"?

Data Systems are designed in form of physical storage units as well as Cloud centres to accomodate such mammoth amount of information which is subject to be processed by the tools of analytics to obtain valuable insights.

All those processed information are getting used in multiple fields like Geographical Information system, Business Intelligence, Application development, policy making, Health, Education etc.

Data age led us to the phase of digitilisation in each sphere. Today, we can access nearly every services through the touch of web applications. It has never been easy to share your feelings with loved ones away from home, or to order your favourite food whenever you want and what can be said about Zoom classes, Telemedicine.

Isn't this all so rosy? A perfect leap towards the future. Then why 9 out of 10 children in Yemen is on the brink of death due to lack of food? Isn't it the bare minimum for human survival? How we reached to a situation where a three time meal is turning into a luxury when data is becoming a necessity?

“

X in Somalia is not so optimistic about the future like Ravi. Drinking water from a dried up tap source and eating animal carcass infested with insects is his last resort. A driverless car may not put smile on his face. A piece of bread and some rice may. But, that seems like too much to ask for him. Is he going to be part of statistics too? How We reached here?

Hunger is not just about the unavailability of food. It is a multi-dimensional issue that involves both the accessibility of nutrition as well as the capability of body to absorb the nutrition. First, we have to make it accessible.

Climate Change has been a major cause in the scarcity of food due to failure of crops. Lack of adequate resilience and adaptability led to

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an agrarian crisis. The productivity is decreasing and the instances of pest infestation like locust attack has increased due to rising global temperature .

Rising temperature took away the soil moisture and aggravated the land degradation. In India itself, more than 40% of land is under the threat of becoming wasteland due to this. It is highly unlikely to cater the rising population with decreasing productive land .

Population of earth surpassed 8 billion. As Maslow talked about the limiting factor, there has been no signs of control in world's population except the slight decrease in fertility rate in Europe and Asia.

Production indeed has taken a hit but it is not the only reason.

The accessibility of food grain is linked to the distribution channels and availability with regional parity. Region of Sub-Saharan Africa is facing with acute food shortage due to failure of distribution.

Such failures have led to irreversible impact in Nutritional Security. In India itself, the latest rankings of Global Hunger Index put India in 117th place. It questions the successes of green revolution and government schemes like NFSA.

Impact of people has been detrimental. There is a twin burden of malnutrition in India at the moment. The absence of nutritional food led to scarcity of essential nutrients in the body. It led to nutritional disorder like

Vitamin deficiency, Anaemia etc.
More than 50% of Indian women are anaemic.

Extreme case of food unavailability and prolonged hunger led to death.

It is quite common in the war torn countries like Yemen, Mali, Burkina Faso.

Absence of adequate nutrition not just inhibits the physical development but also impairs the cognitive capabilities.

It prevents them from being Human Capital and demographic dividend.

'So have we lost it?' ~~is the~~

Is there a comeback from this? World Food programme took the initiative to tackling the Challenge the global hunger. Sustainable Development Goal of Zero Hunger was emphasized all over the world. Even India has also

prioritised the food availability through its 'Right to food' vision. Nearly 75% of rural and 50% of Urban population are covered under subsidised regime. Gandhiji idea of Antyodyaya and Sarvodyaya is key essence in making food available to all.

In COVID times too, Government launched free rations to people under PM Gareeb Kalyan Anna Yojana and even launched an interoperability through One Nation One Card Scheme. Children nutrition is emphasized by POSHAN, Poshan Suraksha Yojana, Mid Day Meals etc.

Though we are still lagging. After all these interventions, we haven't been able to solve the enigma of food Hunger. Recently 'Shree Anna' for millets was also launched to address the Climate Resilience but it is just the beginning.

Data can come handy in this scenario. When Amartya Sen mentioned 'Capability approach' and link it with the 'Idea of Justice', those capabilities today runs through the Data structures.

Data can aid in the management of inventory and stock filling of food supplies. Let's not forget the synergy between Demand and supply. A real time geographical mapping is going to be a game changer in distribution and making sure food is not too far away from access.

Use of Artificial Intelligence and Machine learning is taking shape in form of farmer aiding chat bots,

Demand forecasting and leakage reduction. Use of biometric Identification has helped Indian government to

remove inclusion and exclusion error.

Different Application like m-kisan, Meghraj, Soil Health Card is also using data analytics for address the agrarian crisis. Kisan drones augmented with the latest technology may be panacea to issue of Pollution and GHG emission from Agriculture.

So Future awaits two possibilities for us, either we can utilise the resources of data to repair the broken system and provide food to all, Or we can wait for the future where there will be technologically advanced machines dictating the loaf of bread for Vishal.

Vishal doesn't deserve all such suffering just because of Myopic nature of our foresight. Data

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Is indeed essential but it is a
means to an end not the other
way around.



खण्ड-B / Section-B

Existence is a science, living is an art.

अस्तित्व एक विज्ञान है, जीना एक कला है।

If the truth shall kill them, let them die.

यदि सत्य से किसी की मृत्यु होती है, तो उन्हें मरने दो।

The only way to go beyond things, is to go through them.

हालातों से परे जाने का एकमात्र तरीका उनसे होकर गुजरना है।

Dream for the best. Be prepared for the worst. Enjoy life in between.

सर्वश्रेष्ठ के लिए सपना देखें। सबसे बुरे के लिए तैयार रहें। इसके बीच के जीवन का आनंद लें।

"Dream for the best. Be prepared for the worst. Enjoy life in between."

Martin Luther King Jr. had a dream that one day his children will not be judged by colour of their skin but by the depth of their character. That dream paved the way for the emancipation of Afro Americans.

Life, in principle, is a collection of emotions and our reactions to the stimuli. If considered as a thought experiment, Life is a wavy

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entities with its troughs and crests,
A rollercoaster. In this, there are
instances of ecstasy as well as agony.
Though, we all try to find some guiding
lights.

Dreams are those flames that
invigorate the sense of purpose. It
makes us alive.

"Sabse dukhad hota hai
Hamare sapno ka maar jana".

Dream denotes the destination
one aspires for. It is a culmination of
all the efforts, all the sufferings and
all the sense of courage and fortitude.

But that Dream is just an end of
a journey. It's the journey which
defines whether there is going to be
a reality or not and remember.

"A journey of thousand miles starts
with a step"²⁰

Jyotiba Phule and Savitri Phule had a dream for Indian society. They envisioned the girl education be mainstream. They knew the impediments society of that time going to put. They were mocked and humiliated. But, they were prepared for that. That led to the rise of rationality and gender empowerment.

That Gender empowerment allows women like Chutni Devi from Odisha to fight against the witch hunting. She envisioned a respectful place for her gender in society free from violence.

Gender equality ~~was~~ is not just a destination, it is a fierce battle against the ills of patriarchy and all its aids like objectification, Violence against women. Suffragette movement of late 19th century and early 20th century saw the dream

of equality which is materialising towards an egalitarian society.

Egalitarian society transcends beyond the notion of gender. It includes the equitable distribution of resources and prevention of exploitation of fellow humans. Karl Marx propounded the idea of communism for a egalitarian society. But concentration of power in regimes like Stalin's derailed the journey.

Concentration of power was fought by his ^{highness} ~~excellency~~ Dalai Lama against the Chinese capture of Tibet. He always preached the importance of compassion for the human civilization. But, he was ready to pay any price for his dream of free and sovereign Tibet. It shows sometimes, our

preparation to fail involves little pay.

Malala dreamt of getting educated and be a educator but the Taliban's regressive mentality acts as the impediment to her journey. But the bullet shot by the taliban didn't deter her dream and as she said "one pen, one book, one child" can change the world. It's about overcoming your greatest fear.

"We do something because it is worth more than giving up".

Trischa Zorn too didn't give up on her dream of becoming a swimmer. Despite being blind, her grit and determination made her sail across the Ocean of challenges and she won record number of medals in swimming achieving what she dream about. Anyhow, nothing can stop you if you held your head high.

ISRO in its nascent stage saw subsequent failure. In limited budgetary allocation in a poor country, it faced numerous challenges in its journey to the Moon. Even Chandrayaan-2 failure was taken as partial success. That's winner mentality.

"I am master of my ~~of~~ fate,
master of my soul".

Being loved is the destination of every human soul. The feeling of care and belongingness complete us. Though deemed necessary, it can't be forced upon. "It is not about grand gestures and moon & stars, it's dumb luck". Our journey through life decides whether we are lucky. It's about embracing the self and what comes with it.

"Sometimes great things happen when we aren't looking around".

Is it humanly possible to all manifest the perceived happenings. Human may have conquered nature and put itself in a commanding place but it is not at all universally possible to keep control over things.

Titanic sailing through the Atlantic gave the sense of 'Invincibility' to their owners and makers. It was also a dream, a dream to deter the wrath of Ocean. The 'unsinkable ship' crashed into an iceberg and the dream remain the same.

COVID-19 saw the nightmare of the lifetime. The Health system was completely overwhelmed and people saw their loved ones dying due to

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lack of oxygen. Recent war in Russia and Ukraine was out of nowhere. Though some may have apprehensions about such possibilities, it doesn't seem probable in today's time.

All these events took us by surprise and may be it was not possible to prepare for all of them. Though the sense of objectivity tells us that an informed life can give as much as happiness as a dreamy one.

"The whole notion of success is with the existence of failure"

Objectivity in our decision making allow us to look beyond the haze of euphoria and astonishment and make us believe in our capabilities

It adds motivation and prevent the unsmoothing of self determination in the mind of actor.

Gandhiji has the dream of freeing India. But he visualised the Chauri-Chaura incident as an anti-thesis to his core belief of Ahimsa. He put his dream on hold to keep the journey intact. That's the notion of means over ends.

"No success is final, No failure is fatal"

Life as portrayed are the summation of uncertainties but these uncertainties makes it exciting. Mystery of tomorrow excites the journey and also until the importance of the past.

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Dream of flying car, an equal society, gendered equal society, criminal free politics, world peace has under the garb of uncertainty of future. But,

"The best way to predict future is to work towards achieving it".

Preparation are part of the journey. Sometimes we fail, sometimes we win. "Teena Isi ka naam hai"

"Let everything happen to you
Beauty and Terror
Keep moving
No feeling is final"

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Dream for the best, Be prepared for the worst. Enjoy life in between.

Journey is going to be full of impediments but you need to enjoy to fulfill the dream.

The whole notion of success is with the existence of failure.

"We do something because it was more important than giving up".

Love is not about grand gestures and moons and stars, it's dumb luck.

Let everything happen to you
beauty and terror
Just keep going.

Two roads diverged in a yellow wood
I can't travel both.

Life → Martin Luther King had a dream about United States.

→ Meaning of life
Life is a thought experiment.

→ Dreams & Failure

What matters is journey.

Jyoti Phule →

→ social transformation

Chetani Devi →

→ witch hunting → women

Gender equality →

→ violence

→ egalitarian

Egalitarian →

→ concentration of wealth

Dalai Lama →

→ against nuclear power

→ No price is greater

Malala →

→ overcame

Trisha →

→ when life gets tough, toughen up

T.S. Eliot →

→ Innovation of

COVID →

→ camps

Love →

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Dream → Destination
Preparation → Impediment
Enjoy → Journey

→ H sabse dunda hota hai
Humare sapno ka mar jana

Example

ISRO → reach moon
failure in launch vehicle
Chandrayaan-2 failure

Team India → win world cup
→ forget in group status in 2007
Monkey gate

Disaster → Mitigation

Societal cohesion

→ Separation
→ Communalism

Gender equality →

→ patriarchy
→ objectification

Egalitarian →

→ concentration of wealth

→ Monopolisation

Remia Durrani →

→ prepared to fight (antiwar)

Child's dream

Stick to reality

Objectivity

→ enhances

→ success chances

→ Motivation

→ present

→ dilemmas

But don't be

→ pessimistic

No fail success is

→ final, No failure

→ is fatal.

→ Indifference → Become world largest

→ Balance Payment in Sri

→ Global Recession

→ Trisha → Swimming olympics

→ Blind

→ Malala → Study, education

→ Taliban shot her

→ Dalai Lama → Tibet liberation

→ Chinese capture, exile

→ Akbar → Dinillah

→ Clergy

→ Alexander → Conquer world

→ Strong military

→ Chetani Devi → Withholding

→ Societal

→ Jyoti Phule → women education

→ societal disgust

→ National security → Border

→ Infra

→ COVID → Oxygen, Vaccine

→ Love → Myopic

→ Flood →

→ Can we change preparation work

→ Titani → Sunk

→ loss of loved one

→ 26th October Kandahar Hijack

→ COVID-19

→ Alexander - Returned from India

→ Earthquake volcanoes

Data vs Food

You can't serve data on hungry man's plate

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- Age of Information - Info age - Tech age - 4th IR. (Data generating on unprecedented scale)
- Loads of data, Stacks, Data storage system, clouds (Digitisation) → services
- 4th IR → Digital manufacturing Space for Rough Work social media, Data analytics every sphere
- Mobiles are part of body. children can't eat.

Increase in dependence → Education, Health, Policy, commerce, Communication.

Data privacy → Personal info → Weaponisation

Food → Basic essential → Metabolism → Cell formation & repairing - Nutrition.

- Plant source → Agriculture, Forest etc Neolithic Revolution → food → Surplus led to Society.
- Animal source - Fish, Meat etc, Milk etc → Aquaculture, Accessibility, Global Hunger.
- Climate change → Need for resilience, Adaptation.

Dystopian Age of Robotics → Humans living up for bread.

- food gets over → they protested. data that makes
- Chip in their body was fed with Secretions to calm down.

→ "This was best of times, this is worst of times"

"Data is not the new oil, it's the new oxygen".

→ Ravi is opting for a driverless Tesla EV to celebrate his bonus. car is epitome of data revolution.

→ All started with human evolution of brain → Cognitive thinking

→ Alan's Turing model → computer → Web → Data Age → Age of Data → Industrial Age

→ Data is produced at finger tips

↳ Devices → Mobile, computer, IoT

↳ Govt (earlier) → Census, Survey

→ Where it lies → Data system, Clouds

→ Application → GIS, Mapping, Forecasting, Business Intelligence, Education, Health (Monitoring)

If all so sorry, why is the children in Yemen dying of bare minimum thing called food

X is a child labourer in Sahel region of Africa & working in mining, to get Bobobriston of Paracetamol

X in Somalia devastated by war is drinking wastewater and eating animal carcas. The raw meat infested with insects are of lowest smallest worry for him.

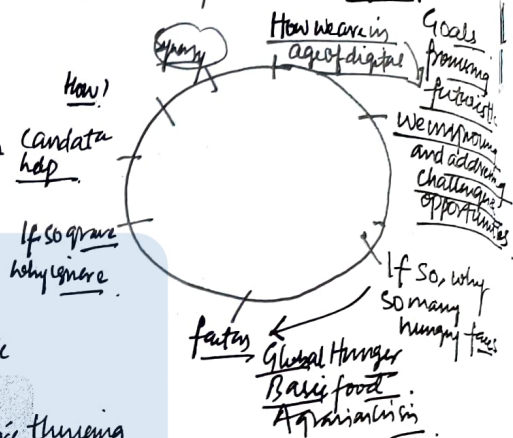
Is he part of a statistics. What mass is real here. causes → Aquaculture distr, Climate change, Population, Land degradation, pollution, distribution, inequal

Impacts → Malnutrition, Death, Anaemia, Nutrition disorder

Can data help Have we lost it Gandhi's samaj

Amartya Sen capability approach idea of justice

Future awaits → Only our vision of sustainability can help us



→ Information age: Finger tips.

→ Sources of data → Social media, Sensor

→ Application of data in 4th IR

→ Futuristic vision → Will there be no hunger, Or not

→ Global Hunger → Yemen, Somalia

→ India being 11th in GHI

→ SIX goal → Zero Hunger

→ Causes of hunger

→ Impact of hunger

→ Failure to eradicate

→ Why we are ignoring it is lie with data and all

→ Dichotomy of data and Hunger Hunger itself becomes a

→ Can data help

↳ Targeting of scheme

↳ Leakage reduction

↳ Forecasting demand supply

↳ Robotics in disaster management PM Kisan PM Health PM Kisan PM FBY

→ What future envisioned

↳ Age of data should be full.