

VAJIRAM & RAVI
MAIN EXAM TEST SERIES (2022)
GENERAL STUDIES
Free Test - 3
GS Paper 3

Time allowed: Three Hours

Maximum Marks: 250

ADMIN. NO.:

1 1 0 0 2 9 0

NAME:

UTKARSH AGRAWAL

MOBILE NO.

(compulsory)

EMAIL:

(compulsory)

Submission Date:

23/8/2022

QUESTION PAPER SPECIFIC INSTRUCTIONS

Please read each of the following instructions carefully before attempting questions:

There are TWENTY questions printed in ENGLISH. All the questions are compulsory.

- The number of marks carried by a question/ part is indicated against it. Word limit in questions, wherever specified, should be adhered to. Any page or portion of the page left blank in the Question-cum-Answer Booklet must be clearly struck off.

Q No.	Marks	Q No.	Marks	Q No.	Marks
Q1	— /10	Q8	4.5 /10	Q15	7 /15
Q2	4 /10	Q9	4.5 /10	Q16	6.5 /15
Q3	4 /10	Q10	3 /10	Q17	7 /15
Q4	3.5 /10	Q11	6.5 /15	Q18	6 /15
Q5	3.5 /10	Q12	7 /15	Q19	6.5 /15
Q6	4.5 /10	Q13	6.5 /15	Q20	6.5 /15
Q7	4 /10	Q14	7 /15	Total	102 /250

Follow these steps to avail the facility of mentoring –

- Go through the soft copy of your evaluated answer sheet and analyse all the comments and suggestions given.
- Call 96672-73133 between 11:00 am to 5:00 pm to fix your mentoring slot.
- Please follow the mentoring appointment timings properly.

FOR EVALUATION

ARV-115

IAS STUDY CENTRE LLP

30 AUG 2022

REVIVED

19. What is a drone swarm? How do drone swarms present a challenge for conventional air defence systems? What countermeasures should be taken to prevent this threat?

(15 marks, 250 words)

20. Discuss in brief India's coastal security architecture and its evolution. Also, discuss the role played by the Indian coast guard in this regard.

(15 marks, 250 words)

(Q. No.)

VAJIRAM & RAVI

Go through all these micro & main comments

Parameters	Excellent	Very Good	Good	Average	Poor	Very Poor
Language and Articulation			✓			
Structure and Presentation			✓			
Conceptual clarity and Content			✓			
Number of Attempted questions		✓				

Evaluator/Reviewer Suggestions

Dear Utkarsh,

All the Best... Try to attempt all the questions in order to score maximum marks.



Structure and Presentation

- you have followed Intro-body-conclusion format, good.
- Avoid use of symbol and short form.

Conceptual clarity and content

- your conceptual clarity is good
- your content is also good.

Language and articulation

- You need to improve articulation. Mainly starting factor or pointer won't fetch proper marks.

Proper articulation =

Idea
Argument + to support Idea
Example + to support argument

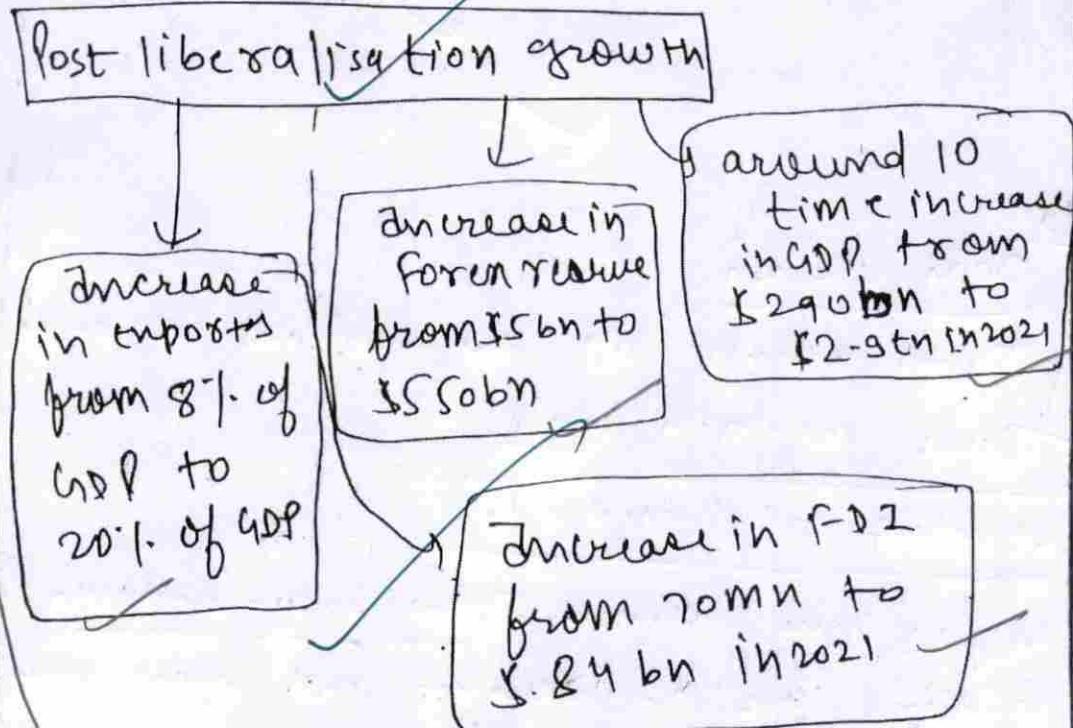
You writing technical is good. You have ability to score high marks

At the Best

Ans 2

Briefly discuss
economic
growth
and
inequality
increased
in that period

India in 1991 took the leap forward towards the "idea whose time had come", an idea of LPG Reforms.



Growth came at cost of inequality

① Income inequality

Top 10% have 75% of wealth → extreme

② Social inequality

Social mobility index → 76 Rank out of 82

③ Sectoral inequality :

Growth of service sectors in double digit but Agriculture sector stagnant at 2.6-3% growth

④ Casualisation of labour force due to increase privatisation

⑤ Gender inequality → feminisation of Poverty

↳ Hendu Chaptidam → Indian women labour force rate $\approx 20\%$.

⑥ Increase in farmer Suicide

↳ NCRB → between 1995-2015
Stark farmer committed suicide

⑦ Regional inequality

- Rural urban divide

↳ 60% growth from urban area despite 31% population

would have suggested few measures to reduce inequality

To conclude with Robert Frost "Before going to sleep I have miles to go". India

C-MNS-GNKL

in coming decades have to take steps to reduce these inequalities

points are relevant to the demand.

Argument can be improved.

Intro - 0.5
body - 3

Conclusion - 0.5

Total - 7

Ans 3

define food processing sector as
properly as
turn over per unit
worked

food processing sector is known as
Sunshine sector which can be
'next big thing' for India's growth
Story

food Processing grew
well in last few
years.

Share in export
increased to 11-12%.

Labour participation
in Manufacturing
sector = 13%.

Annual growth
rate \rightarrow 9-10%.

12-13% contribution
in manufacturing
GDP

need of information
through diagram

Still immense potential to unblock
in sectors

① Food Processing part is
still 10%. (no food processing)

② Food wastage is 30 to 40%
(Dalwai committee)

③ Investment in infrastructure
is low

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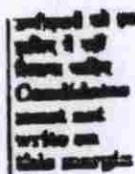
~~There are only 7600 cold storage in country (MOFPI)~~

~~(4) Large informalisation in sector~~

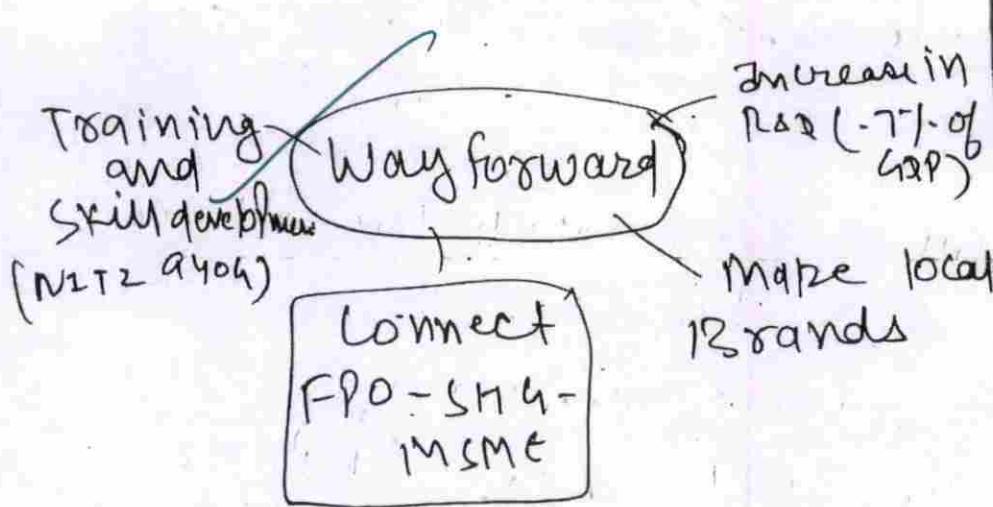
~~675%~~

~~(5) Lack of Capital and Technology in sectors~~

~~(6) Lack of Research and development for Value addition.~~



Ideas are relevant.
Argument can be improved.



Presentation should be better

~~India through KISAN SAMPRADA~~

~~Formalisation of food Processing~~

~~is trying to strengthen Farm to~~

~~Fork Strategy~~

C-MNS-GNKL

Intro-0.8
body-2.5
Conclusion-4
Total-4

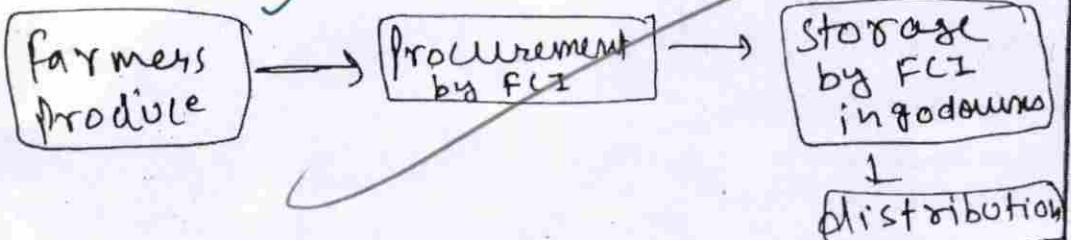
Your confusion is confirmed.

Ans 4

In 1964

Food Corporation of India (FCI) was formed in 1960s after green revolution to ensure food security in country.

FCI central to food security



① As it is involved in Procurement and storage it becomes central to food security in country.

Issues in FCI operation

High leakage and corruption

Shantaprasas Committee →

about 40% food is leaked from godowns

Low Quality of storage →

Majority is Plinth storage not silos

for public distribution system

your arguments
are very short.
try to give
proper
arguments

C-MNS-GNKL

③ More Procurement and storage than Buffer Stock

④ High losses due to Rotten food,
Moistened food to FCI

Way forward

Multiple
of

Quoting
rural
pmt.

① Upgrade storage to silos (Shanta Kumar committee)

② Increase cold storage
& freezing chambers

③ Village level Procurement
for decentralisation (Sawai Committee)

Ideas
and
relevant
agreements
would be
improved.

④ Involvement of Private
sector in storage

► Private stockist scheme
↳ PM ASMA

⑤ Promoting of Negotiable
warehouse receipt system
(Shanta Kumar Committee)

C-MNS-GMNL

Intro - 0.6

Body - 2.5

Conclusion - 0.7

total - 3.8

Therefore Increasing FCI efficiency

its use can make it agency
of innovation

Conclusions
↳ Summary of
above
discussion

(Ans)

Small satellite launch vehicles are launch vehicle which are used to launch very small satellite in low earth orbit.

upto 20 tonne
can be lifted

Characteristics

Payload → upto
10kg

Can be
assembled in
48 hours

assemble both
horizontally as
well vertically

72 hours

All four stages
of solid fuel

→ 3 Stage
solid fuel
→ 1 Stage liquid

Potential of
reusable

SSLV benefiting India's Space
Programme

C-MNS-GNKL

①

Foreign Reserve / AS

Foreign Satellites can be launched

Recent launch of
Canada satellite

Answered in
Part A
Topic wise
Completely
must not
write on
this margin

- ② Increased role of Private sectors
- ③ More Budget, growth for ISRO
- ④ India's Space Diplomacy and soft power will increase
- ⑤ ISRO can focus on deep research giving SSLV to private sectors
- ⑥ SSLVs are more Economical

Idea
are
relevant.
Improve
your
argument.

India has also initiated
New Space India Limited (NSIL)

Conclusion
is confirmed

mainly for SSLV launch

C-MNS-GNKL

Recent decision of allowing
private sectors in space
give boost to SSLV programme

Introduction - 0.5
body - 2.0
Conclusion - 1

Total - 3.5

Ans 6

Define what is single-use plastic and their impact on environment.

Ideas are relevant, arguments can be improved.

Government has amended Plastic Waste Management Rules in 2021 to

put ban on High littering law

Utilisation single use plastic from July 2022.

Ban on single use Plastic is significant step

① Created issue in Solid waste management

② As it was single use recycling possibility low

③ Cause of Groundwater pollution, drain Blockage

↳ Urban floods in Hyderabad

④ Single use Plastic also resulting into marine pollution ↳ Great Pacific garbage patch

⑤ Create high pollution on inhalation ↳ Gases like CO₂, NO_x

Not a complete solution

- ① Single use plastic - Only 40% of total plastic.
- ② Execution of Ban is also more important.
~~→ ultra-thin Put Ban on single use plastic but couldn't implement it~~
- ③ Recycling of other plastic is also very low.
- ④ Extended Producer Responsibility in plastic waste is a non-starter.
- ⑤ Plastics of low thickness are still used despite 75mm guidelines.
- ⑥ Awareness among masses about negative consequence is low.
Recently Himachal government has put complete ban on non-woven plastic. Such measures are needed to fulfill commitment of 30x30 initiative.

Introduction - 0.5
body - 3
Conclusion - 1
Total - 4.5

Points are relevant to the demand.

C-MNS-ONLINE

Ans?

UNEP's Adaptation gap report, 2021
focuses on Role of climate financing
to mitigate and address climate
issue.

Article 6 of Paris climate
also talk about climate financing.

Importance of climate financing

- ① helps in Switching to green energy like solar, wind etc.
- ② Helps in mitigating effect of climate change
Disaster Resilient infrastructure
- ③ Promote climate friendly activities
green building
- ④ incentivise local peoples to switch to modern and green fuel
from wood to LPGs

UJJWALA YOJNA

How you can also mention that climate financing for mitigation and adaptation measures

Ideas and examples are there proper arguments are missing. Try to improve that.

C-MNS-GNKL

⑤ For technological development
↳ Carbon sequestration technique

International Financial Mechanism

① Adaptation fund based on
Kyoto Protocol

② Green Environment facility (GEF)
during Rio Conference 1992

③ Green Climate fund at
Cancun summit

④ Least developed country fund
by GEF

⑤ REDD and REDD+ initiative by
UNFCCC & UNEP

⑥ Special Climate Change fund

There is need that developed
world fulfill its commitment of
\$100 bn fund to developing
countries as historical responsibility

Try to
give
a
brief
argument
for all these
points

Ques 8

approach
question
objectively

Directly
discuss the
demands

Relevant
differences
are made.

also mention
Flash drought
is rapid
onset and
intensification

C-MNS-QNKL

Drought is phenomenon where there is lack of water in particular area creating several negative consequences. It can be both Natural or Anthropogenic.

Answer to
Question
Condition
must not
write on
this margin

flash drought

① Refers to drought which occurs in short area at very rapid pace

② Majority due to Anthropogenic cause

③ Don't give time for adaptation etc

Mitigation

④ Reason include Climate change, global warming, deforestation, El Nino, unsustainable agriculture

Conventional drought

① Occurs in relatively large area over a period of time

② Mainly due to Natural cause

③ Give time for adaptation and mitigation

⑤ Reason include geographical feature like desert, no barriers to capture rain etc

Vulnerability to Flash drought related hazard

noted in
page 4 of
these notes
Consideration
must not
write on
this margin.

- ① Food Security issue → due to lack of agriculture activity
- ② Economic disasters → As per UN Report India lost 25% of GDP because of drought
- ③ Migration crisis → internal migration creating law and order issue
- ④ Health hazards due to polluted water
- ⑤ Use of plastic packed bottles

~~Use of plastic bottles~~ → Plastic pollution symbol for articulation

Need of drought management cells,

Rainwater harvesting, Use of

Traditional Water storage system

Intro - 0.8
body - 3
conclusion - 1
Total - 4.8
is need of hour to combat flash drought

Points
are
relevant
Improve
your
arguments.

Conclusion
is
written.

Ans

Recently released report UN Drug Organisation has argued that use of Cryptocurrency and dark web is rampant in Narcotics trade.

Advantage of ICT use in drug enforcement → Avoid short form

- ① Better surveillance on internet on drug demand
- ② Better coordination among enforcement agency through ICT \rightarrow NATRID could be used
- ③ Can create better evidences given
 \nwarrow NCB using WhatsApp chats as proof to make cases
- ④ Increase conviction rate because of more evidences
- ⑤ ICT can also be used to aware people and reduce drug demand

\nwarrow use of ICT in National Action Plan on drug demand reduction

Here define term crypto-currency or darkest web transit the content

Ideas are relevant Impose your arguments

C-MNS-GNKL

Need of Reassessment of Impact of ICT on drug Policy Enforcement

- ① Increase Narcotic financing through
Cryptocurrency
 - ② Cryptocurrency has become
new haven for money
laundering and subsequent
use in drug trafficking
 - ③ Dark Web provide anonymity
for drug dealers
 - ④ Hard to detect and surreill
buy drug enforcement agency
on Darknet
 - ⑤ Ease of access in getting drugs
through ICT devices
which Increase demand
- need of proper regulation over
emerging technology is need
of hour to prevent misutilisation

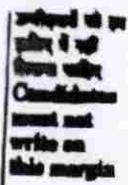
Answers to
Ques & all
from which
Constitution
must not
write on
this margin

points
are
relevant
to
the
demand

your
conclusion
is
correcting

Ques 10

India is buying 36 Rafale jet from France to strengthen its Air force and Military deterrence.



Rafale Jet Countering threat Posed by advanced 5th generation fighters

- ① It is nuclear capable jet
- ② facility of mid fueling
- ③ Can also launch attack drones
- ④ Fire and Forget missile system
- ⑤ Speed of supersonic

Point on
Gen.
Try to
properly
link
H to
the
demand.

ISSUES still remain

- ① Can be countered by Air defence system like S-400

C-MNB-GNKL

1 L 11/2021 7/10/2021

En: China also has 3400

①

India has very small fleet of Rafale which might not be sufficient during war (2 frontways)

Point at relevant issues after 100'

Conclusion
"sum up
of above
discussion"

India should collaborate with France and with technology transfers should more advance version.

Intro - 0.5

body - 2

Conclusion - 0.5

Total — 3

Ans 11

Diverse aspects like
CBDC as legal tender
similar to fiat currency

etc

points
are
relevant
to
the
question.

C-MNS-GNKL

Central Bank Digital Currency (CBDC) is kind of ~~Cryptocurrency~~ which is backed and regulated by Central Bank ~~by RBI~~ in case of India.

CBDC is encrypted currency independent of Banking system.

It will be directly authorised by RBI.

Basically it is based on Blockchain technology which is based on distributed ledger technique. It has various advantages.

Union Budget has proposed introduction of CBDC to increase digital economy in country.

measures

(CBDC boosting digital economy)

- ① It is a digital currency so use of CBDC will lessen cash transaction increasing digital transaction
- ② As it is safe and encrypted compared to other currency it will increase digital economy
- ③ It has advantages to boost digital economy like:
 - (i) It is transparent
 - (ii) Affordable in nature
 - (iii) Cross Borders Remittance vs transaction become faster
- ④ Cost of Printing money is reduced
- ⑤ Unlike Bitcoin, Ethereum CBDC is controlled by RBI so more stable, less volatile

⑤ As it will be flat money, citizens can use it freely without fear of its illegal use. Therefore it will boost digital economy.

ISSUES WITH CBDC

- (1) It can reduce cash deposit ratio in bank impacting Money Multiplies
- (2) Less deposits means less profit of Bank
- (3) Saving rate in economy might reduced
-
- A bar chart titled "saving rate" comparing two financial years. The y-axis represents the saving rate, and the x-axis lists the years 2013-14 and 2019-20. The bars show a decrease from 34.1% in 2013-14 to 28.1% in 2019-20.
- | Year | Saving rate |
|---------|-------------|
| 2013-14 | 34.1% |
| 2019-20 | 28.1% |
- (4) Crypto Mining need large energy
- (5) With centralised currency chances of less acceptancy

CBDC is an idea whose time has come. RBI with proper safety measures should introduce CBDC

Prompts
all relevant
to the
money

Intro-1
body-4
conclusion
Total

C-MNS-ONKL

your conclusion
to just
sum up of
above
discussions
3

Ans 12

Developed nations are suffering from declining as well ageing population.

Average age of Japan is 41 years

while that of China 35, USA also has average age around 37 years.

India's opportunity to produce skilled Human Resource

(1) Average age of Indians is 26 years - NSI AHO 4

(2) 65% population is of working age (16-59 years) in census, 2011

(3) Currently India's Human resource is not skilled, this provide opportunity

Only 41% formally skilled - economic survey

(4) India can export its Human Capital in ageing countries like Japan, Russia

C-MNS-GNKL

discusses population aging as a concept which is a universal phenomenon

points are relevant
arguments can be improved.

Challenges in Producing skilled Human resource

① Low Education Quality

- ↳ only 3.1% of GDP in Education Budget
- Focus on rote learning
- lack of creative thinking

② less Research Budget

- ↳ 7.1% of GDP on R&D

③ Quality Teachers for imparting skills are less

- ↳ Lack of awareness about need of skills due to low literacy

④ Poverty → People going

- for low skill work rather than investing in high skills

⑤ Standard Curriculum of Skill centers (TIT) is not up to mark

May forward

- ① Focus on Academia - Industry linkage for industry relevant skills
- ② Involvement of Private sector in skill development
↳ National Skill Council
- ③ Increase expenditure on R&D to at least 1.5-2%
- ④ Entrepreneurship skills from school level
↳ Delhi Entrepreneur Classes
- ⑤ Coordinate with Over 120 countries to impart high skills.

Amitabh Kant in his book "Shifting Orbit" has game focus on skills, innovation to make India knowledge economy as well world's skill capital

points
are
relevant
to
the
demand.

Intro - 1
body - 4.5
conclusion - 1

Total - 7
6

Ans 13

PM Gati Shakti is infrastructure initiative of around 100 lakh crore rupee. It is a transformative approach for economic growth.

would have mentioned that
for a National Model
plan for multiple
model connectivity

Ans 1 presentation
through diagram

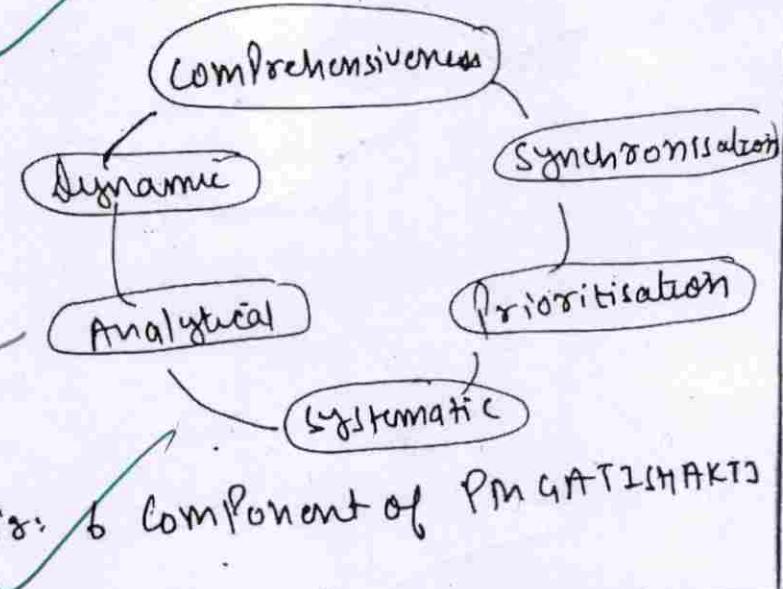


Fig: 6 Component of PM GATI SHAKTI

It will bring coordination among 16 ministries and complement National Infrastructure Pipeline.

Gati Shakti giving new direction with transformative approach

- ① Better Coordinating among different department

- ② Resource utilisation ratio will increase
- ③ Transparent approach for common people as portal will be open to public
- ④ Being dynamic and analytical it will be based on feedback mechanism
- ⑤ Prioritise the infrastructure projects for fast completion.

PM Gati Shakti facilitating India's transition to Amritkaal

- ① Reduce logistic cost

⇒ Currently 14-15% of GDP.
New Zealand - 5%

- ② Increase Foreign investment
- ③ Improve ease of doing business due to better infrastructure
- ④ Improve Connectivity will improve sectoral growth in Agriculture, industry

C-MNS-ONKL

Industrial sector stands at 30% of GDP

Points
are
relevant
to the
demand.

Improve
your
argumentation

⑤ Reduce overrun cost

↳ MOSPI - 125 Projects having 4.9 lakh crore overrun cost

⑥ Multiples effect → reduce unemployment

↳ 7.7% unemployment in June → CMIE

⑦ Reduce Poverty in Amit Patel ↳ 20% → Tendulkar committee

⑧ Ease of living → People feel

Uneariness due to Road blocks

because of longrunning infrastructure project

⑨ promotion of Multimodal transportation helpful in environment also

↳ Transport through Road is least efficient

PM GATZ SMART have potential of transforming India's growth journey

with help of Private sector, better coordination among ministries

PM GATZ SMART can be achieved

Ques 14

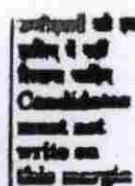
Digital agriculture is agriculture where use of information and communication technology (ICT) is embedded in traditional agriculture for various benefits.

Digital agriculture concerns that role of c-technology in agriculture helps to increase farmer's income as well more efficient farming.

Digital agriculture increasing farmer's income

① Decreasing input cost → use of AI for precision farming gives optimised use of fertiliser, seed, water etc.

② Right advisory → As per economic survey, using IMD



Try to
use these
points,
concise it
and use it
for a
better
introduction

points are
relevant
to the
question,

weather guidelines many farmers have seen increase in income upto 50%.

③ Better Market → through e-NAM
farmers get better price discovery

④ Market Awareness → startups like Deekhat help farmers to grow as per demand of market.
Improving efficiency

① Smart Irrigation with sensors help farmers to increase water efficiency by 40-60% (economic survey 2018-19)

② Use of AI drones help in increasing efficiency of fertiliser as well seed dispersal

③ Right Practices → Kisan Call Centres and Krishi Vigyan Kendras mapping farmers aware of better practices

Demand
properly
addressed
under
various
sub-headings

④ Digital farming through Blockchain

Censors help farmer to know exact amount of inputs increasing efficiency.

→ Startup Agri grow helping farmers to do so

Government initiative

① M Fiscus APP to make farmers aware

② e-NAM for market

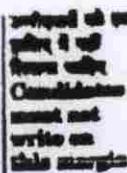
③ cyber Agro Physical system

④ e-RAKAM → for better price discovery

⑤ FARMS APP → for mechanisation of Agriculture

⑥ Meghdoot → Cloud storage system for Agriculture information

Ashok Gupti in book "Agriculture Entention system" has argued to increase budget, private participation for increasing digital use in agriculture



you should properly argument for these points.

Avoid one like point.

Input-1
Body-4.5
Section-18

CMNS-ONLINE
continues

→ good budget, private participation for increasing digital use in agriculture

Ans 15

According to National Task Force Report, India have 40% of women in doctoral degree. However at research level numbers decreases to 15%. In Technological level - Global average is 30%.

Reasons for lack of women participation
in STEM

- ① Patriarchy - Women are not considered fit for education, jobs.
- ② Pink collar job → such as Teachers, Anchors etc.
- ③ Dropout post Marriage → due to family pressure, pregnancy women have to leave research field
- ④ Glass ceiling → many women at higher

level face issue in getting funds,
recognition etc.

► Recently CSIR in 100 years
got first women director

⑤ Double burden of work → STEM us
Research is time consuming process

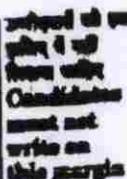
⑥ Financial issue → STEM field
require long education and
finances

⑦ Lack of Role → Women from
childhood are not promoted in
science field so at higher level
they face issue.

Measures to be taken

① Reservation in STEM field
► IIT has reserved 17%
of seats for women

② Science clubs for girls at
school level



Instead of
Ti library
only
5 but
with
proper
utilization

points
discussed
are
relevant
to
top
field

- ③ Scholarship scheme for women in science ~~Udyan scheme~~ Udyan scheme
- ④ Awareness among young girls through Role Models Sonja Swaminathan
~~is a~~ WHO scientific advisor
- ⑤ Mass awareness especially in girls Parent for promoting girls toward STEM field
- ⑥ Learning from Best Practices ATHENA SWAN CHARTER of UK grade institutions from gender perspective and allocate finances
- ⑦ Ensure Post Child & caring Return of women Japan's Womenomics JAPAN'S Womenomics
Good Mentoring Government doing thru
Government schemes. GATI Project,
ICRAN SCIENTIST, WOMEN
Scientist scheme it trying
to increase women participation

Inpro-1
Body-4.8
Contribution-1.5
Total- 7

C-MNB-GNKL

BEST

According to world innovation council India ranks 44 on innovation in world.

[Add content in your production] →

use of Demographic dividend

Need of thrust on innovation

attract more investment on sector

Promotion of startup economy

Help in increasing human capital for more scientific innovation

Increase exports based on scientific advancement

Good presentation through diagram.

Government has recently released Draft - Science Technology Innovation Policy, 2020

Features of Policy

① One Nation One Subscription →

People get subscription of journals, research papers on one portal

- C-MNS-QNKL
- 17
- ② Increase Research GDP and private researchers to double in 5 years
 ↗ On: 0.7% of GDP on research
 3% in China
 - ③ Increase women participation in STEM field
 - ④ Every department will have Science Technology Innovation Policy orientation
 - ⑤ Linkage of Traditional knowledge with current.
- Approach that can help unlock innovation potential
- ① Increase Budget on R&D
 ↗ On: atleast 2% of GDP
 Currently 1.7% → Improve your technology
 Both are looking similar
 - ② Recruit more researchers
 ↗ On: only 210 research per million, China - 1100
 In NITI Aayog

- ③ Focus on skilled workers
 - ↳ only 4% formals skilled
 - ↳ economic survey
- ④ Taking help of standardization like in NASRA scheme
- ⑤ Increase Role of Private sectors
- ⑥ More scholarships to young students for adopting research, innovation field, innovation
- ⑦ Science clubs; innovation clubs in schools

~~Review
schemes
not mentioned~~

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GOVERNMENT through PM

research fellowship MANAKA
Scheme NASRA Scheme
Aatmanirbhar Mission
 is trying to increase innovation potential.

Point out
relevant
to
the
demand,
articulation
can be
improved.

Intro-1
Body-4
Conclusion-1.5

Total - 6.5

ANSWER

Recently India announced for Reintroduction of African Cheetah. 12 Cheetah from Namibia will come after extinction of Indian Cheetah in 1950s.

Reintroduction boost conservation of species

- ① Cheetah acts as Umbrella Species so other species will also conserve
- ② Cheetah & carnivore flourish of small grazers therefore small animals will increase
- ③ Tourism will increase so better investment on conservation process
- ④ Forest department will also

be more proactive for species conservation to make Cheetah population stable

Reintroduction back to ecosystem

- ① Map food chain, Food Web system better \hookrightarrow ^{inbrate the} point
- ② Increase efficiency of energy cycle because Cheetah being Top predators
- ③ Because of species conservation overall ecosystem will improve
- ④ As lower predators like Herbivores will require more Trees, Plants, overall ecosystem conservation will also happen
- ⑤ Locals and species interdependence

points to be
written & off
done with
Consideration
point and
write on
this margin

Points for
are
relevant
to the
demand
sustainability
would be
improved.

relation will be more healthy
because of mutal benefits

Answer
in
the
margin
and
write
on
this
margin

Challenges

- ① African cheetah have different ecosystem adaptation so might face difficulties.
- ② Cheetah require very large area compared to others. TOP consumers live Lion, Tigers
- ③ Conflict for territorial area among TOP Predators
- ④ Quality of Forest also varies from Africa to India
- ⑤ In initial years Breeding among cheetahs might be difficult.
- Reintroduction of cheetah is good move toward ecosystem conservation. Some focus should also be continued on other species as per IUCN Red list

points
as
relevant
to the
subject
will

Introduction - 1.8
body - 4.0
conclusion - 1
Total - 7.8

C MNS-ONKL

Ans 18

According to IPCC Report (6th assessment) with increase in climate change there will increase in disasters like flood specially in Indian subcontinent.

Climate induced flood load and reservoir level leading to dam failure

- ① dam level going above the permissible limit
- ② due to high water pressure dam can get weakened
- ③ with reservoir level beyond capacity flood water can also destroy dams leading to catastrophes

Tech: Kerala floods in 2018 due to dam failure

→ How flood will effect our reservoir and can lead to dam failure is the theme.

↗ Try to settle it in introduction.

Points are relevant to the demand.

Dams
about
old
dams,
Melting of
snow, etc
due to
global
warming.

① Climate induced floods also result in siltation of dams which increase chances of dam failure

② Climate induced floods are sudden and don't give authorities time to react.

Parliament Recently enacted
DAM safety Act , 2021 to
prevent such cases.

DAM safety Act preventing
DAM failures ^{related} disasters

- ① It creates trust or Dam body for overall Management of DAM
- ② Responsibility of DAM management on states

③ Timely DAM Rehabilitation,
Repairing

④ Provision of Early
warning system
to People Regarding
Potential Failure

⑤ Provision of rescue
and evacuation of
surrounding population
on Potential danger.

Ideas
are relevant
but proper
provision of
dam safety
pet is
not discussed

your
writing
is
correct

DAM Safety Act, 2021, DHARMA
APP and DRIP Scheme
by government are initiative
for better DAM management.

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Intro - 1
Body - 3.5
Conclusion - 1.8
Total - 6 24

Ans 15

Drone swarm refers to

phenomenon when very large numbers of drones come together and fly in specific positions to create a swarm phenomenon.

Drone swarm is recent phenomenon which is used by state as well non-state actors for increasing deterrence.

Drone swarm has been used by Azerbaijan against Armenia in Nagorno conflict.

Drone swarm posing challenge for conventional air defence system

- ① Their slow speed makes them hard to detect for air defence systems

② They fly at low altitude
 compared to missiles, fighter planes
 so hard for defence system to
 detect and shoot

③ Being in very large
numbers not possible for
conventional system to neutralise
 them

④ Swarm come from multiple
direction limiting success
 of conventional air defence system

points discussed
 are relevant
 to the demand

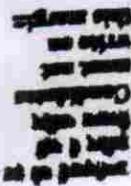
Countermeasures to be taken

① Increase research and development
 on Attack drones

② Collaboration with like
 minded partners such as

ISRAEL, Quad for offensive
drones

↳ R Heron Drones



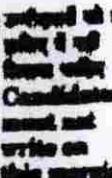
- Date _____
Page _____
- { Points relevant to the demand }
- ③ Perfecting Laser Technique for countering swarm drones
 - ④ Focusing on Jamming Technique
 - ⑤ Buying more advance air defence system like S-400
 - ⑥ Indigenous defence system on line of ISRAEL'S IRON DOME to neutralise low altitude drones
 - ⑦ Better regulation and surveillance on use of drones

Drone Regulation Rules, 2021.

Upgradation of PUSTOM, Manufactory of attack drones by DRDO are step in right direction

Intro - 1
body - 4
Conclusion - 1P

Total - 6.5



Ans

Indian Coast Extends upto 7500 km including island coast making it ~~is~~ vulnerable to many traditional as well non traditional threat like Smuggling, Trafficking, Terrorism etc.

→ your presentation
is
written

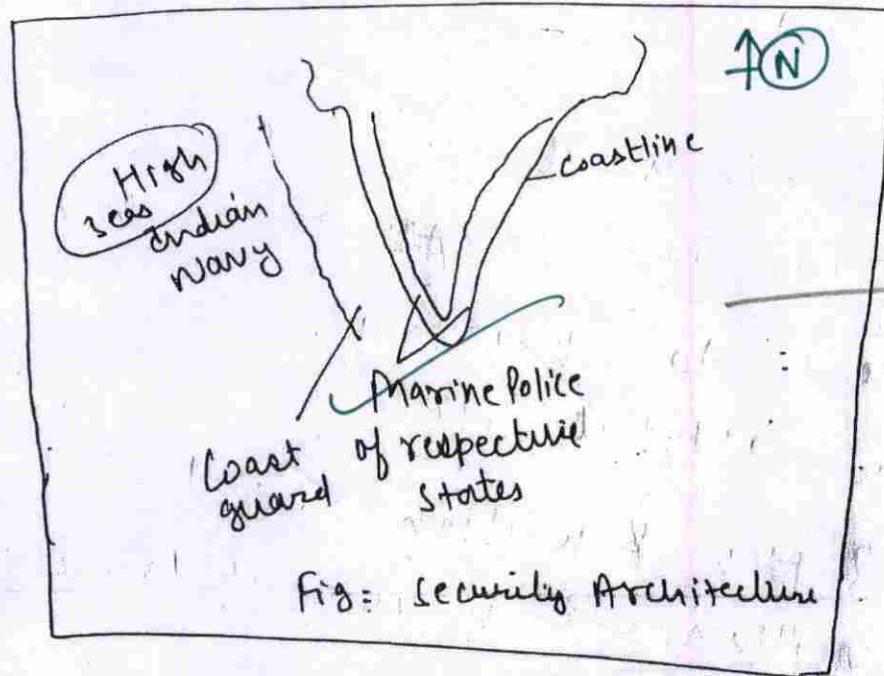


Fig: Security Architecture

Other Initiatives for Coastal security architecture

Pre 26/11

① Indian Maritime Security Coordination Scheme

Scheme treats overarching

C-MNS-CMNL

INS-CMNL

Structure for Coastal security

- (1) Coastal security scheme :- for securing Indian coast by smuggling, trafficking etc.
- Post 26/11 \rightarrow cross segregation of pre and post 26/11
- (2) National Committee for strengthening maritime and coastal security at open level
- (3) Coastal surveillance network - use of sensors / radars
- (4) IMAC \rightarrow information management and analysis centers
- (5) National Maritime security Coordinators for effective coordination among different agencies

Role of Indian Coast guard

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- (1) Coast guard is a paramilitary

force which helps in coastal security

② It works in territorial waters and Exclusive Economic Zone

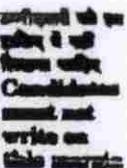
③ Works for surveillance in India's waters

④ Counter any smuggling, trafficking event

⑤ Coordinate with state governments to counter any terrorist bid

⑥ Take help of local fishermen to track any unwarranted activity in sea

⑦ Coordinate with NAVY for protection of Maritime security as well Maritime borders



points
are
relevant

to
the
second

argument
could be
improved

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There is need to increase funds
of Coast Guard, India NAM and
increased coordination among different agencies

Total - 6.5
Body - 4
Conclusion - 1