



ENLITE IAS

Enlightening minds. Lightening journeys

MAINS TEST SERIES 2024

FULL TEST GS III

Question Paper Specific Instructions

1. There are **TWENTY** Questions printed in **ENGLISH**.
2. All the questions are **compulsory**.
3. The number of marks carried by each question (or part) is indicated against it.
4. Word limit in questions wherever specified should be adhered to.
5. Any page or portion of the page left blank in the Answer booklet must be clearly struck off.

Qn No.	Marks Obtained	Qn No.	Marks Obtained
1	5	11	4L
2	4	12	1 1/2
3	4	13	5L
4	1 1/2	14	6L
5	4	15	7
6	4	16	7
7	4L	17	5L
8	9L	18	7
9	4	19	5L
10	4	20	6L
TOTAL			

Name

ANUSREE SATHYAN

Roll no

Subject

Date

05-09-2024

Questions
Attempted

EXAMINER REMARKS

GRADE PARAMETERS	BELOW AVERAGE	AVERAGE	GOOD	BETTER	OUTSTANDING
Understanding of question					
Conceptual clarity					
Structure					
Content					
Presentation & legibility					

Any other remarks:

Dynamics of the economy

Consumption — household, Government, Savings, Demand, Interest rate,
 Bond yield, Currency exchange rate, Investment,
 & Capital expenditure, Gov Expenditure, Export, Import

Macroeconomic stability indicators

Fiscal deficit, Debt/GDP, Interest rate, Bond yield,
 Inflation, Currency exchange rate, Current Account Deficit,
 Forex, NER, RER, ~~AGNPA~~ (2%), CRAR (16%)



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1. Examine the pivotal role played by Regional Rural Banks (RRBs) in the socio-economic development of rural India. (10 Marks)

(Don't write anything in this area)

According to NABARD - Household financial inclusion survey - RRBs plays a significant role (60%) in financial inclusion of rural households.

Role of RRBs in rural India

Social development → Addressing poverty - by giving loans for livelihood.

→ Women empowerment.

(eg) Supporting women-led SHGs

→ Provision for basic amenities promotion.

(eg) loans for working capital - street vendors

→ Supporting various social security initiatives (eg) MGNREGA - wages through accounts



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Economic development

- Access to credit -
(eg) Mainly to small and marginal farmers
- Ensuring last mile ~~com~~ reach -
(eg) Bank Sakshis
- low interest rates, thus avoiding debt traps.
(eg) Less than prevailing lending rate of SCBs in the area.
- Developmental assistance.
(eg) ~~MUDRA~~ easy loans - PSk-75%
- Boost to MSMEs. (eg) MUDRA scheme

Concerns

- limited technological adaptation (eg) AI
- limited resource availability & NPA problems.

Way forward

- R&B recapitalisation funds.

(Don't write anything in this area)



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2. Discuss the various methods used to calculate the Gross Domestic Product (GDP) of India. What are the reasons for the disparity between Gross Value Added (GVA) and GDP? (10 Marks)

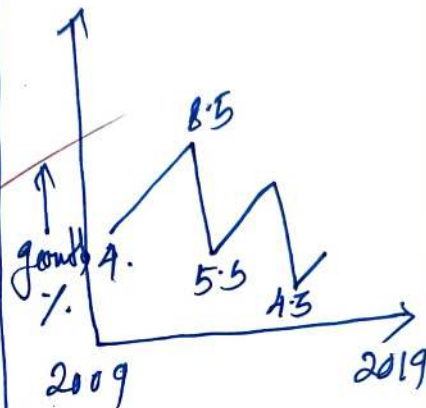
(Don't write anything in this area)

India's. Gross GDP growth rate shows an upward projection in the post-pandemic period.

Methods to calculate GDP

① Income method.

→ Here domestic product is equal to the sum of all domestic income.



$$GDP = \text{Profit} + \text{wage} \quad (\text{GDP projected growth rate})$$

② Expenditure method — calculated on the basis of various expenditure.

$$GDP = C + I + G + X - M$$



- ③ Value added method - in this method, additions ~~are~~ made at the intermediate levels ~~are~~ also included

(Don't write anything in this area)

Reasons for disparity between GVA and GDP

- ① GDP only considers the domestic income, investments etc, whereas GVA in addition to this includes those at intermediary levels.

④ Subsidies

- ② GDP considers only production linked parameters whereas GVA covers the entire supply chain.
- ③ The difference is also due to the unequal share of different sectors also.



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3. What is fiscal consolidation, and why is it important for economic stability? What are the major factors that cause governments to experience fiscal slippages? (10 Marks)

(Don't write anything in this area)

Fiscal consolidation refers to the measures taken by the govt in optimizing the fiscal deficit thereby achieving the required projected growth and fiscal policy targets.

Methods → Strategic disinvestment.
→ Varying tax slabs
→ change in key policy rates such as repo.
→ Investment in public infrastructure.

Why important for economy

- ① To achieve the projected growth targets (eg) Proposed by Economic surveys, NSO etc.
- ② To avoid the problems of debt.



teap
(eg) Due to deficits

Avoid Grounding effect

③ Enhancing the role of MSMEs and manufacturing sectors.

④ Enabling investment and FDI
(eg) In startups

⑤ Strengthening the bond markets and attracting foreign investments

major factors

⑥ Reducing the problem of NPAs in formal financial institutions

⑦ Enhanced infrastructure thereby enhancing participatory growth.

way forward → Focusing on counter cyclic policies during adverse times

(Don't write anything in this area)



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4. Discuss the challenges facing the formalization of the Indian economy and briefly outline the measures in the 2024-2025 union budget aimed at facilitating employment and skill development. (10 Marks)

(Don't write anything in this area)

According to economic survey 2019 - informal economy accounts to nearly $\sim 40\%$ India's ^{GDP} growth model.

challenges in formalisation

- ① Limited reach of ~~services~~ due to absence of last mile connectivity.
- ② Inadequate attention toward MSME sectors.
(a) $\sim$ only 10% are in formal sector.
- ③ Inadequate technology and infrastructure
(a) gig workers, street vendors



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① Absence of strong social security code.

② Social security code 2020
no inclusion of informal sector.

③ Inadequate credit and investment opportunities and avenues.

④ working capital

Measures

→ Curriculum updation -
under NEP 2020 to include
vocational training.

→ Self-employment opportunities

⑤ MUDRA 2.0

Upskilling and reskilling -
through NSDC

Proposed social security code for
Gig workers.

Through this SDGT-8 - inclusive development
achieved.

Mail : enliteias@gmail.com

Call : 7994058393

(Don't
write
anything
in this
area)

Please read it



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5. Recent solar missions like India's Aditya L-1 reflect a growing interest in studying the Sun. How does this mission help us understand the importance of sun? (10 Marks)

(Don't write anything in this area)

India makes a milestone in space arena by the launch of Aditya-L-1 - solar space probe.

Mission objectives → to demonstrate soft landing of solar probe in sun
→ to achieve India's goal of becoming a major space power.

Benefits of the Mission

- ① to enable studying solar atmosphere and heating patterns.
- ② Deep understanding about the coronal heating and coronal mass ejection.
- ③ Enables understanding about solar flares and its effects on



earth's systems.

- ④ Helps in analysing the impact of solar wind on earth's satellite navigation.
- ⑤ Enables conducting various experiments in solar atmosphere.
 - ④ Material Science
- ⑥ Helps us in understanding about the formation of sunspots → regions of less intensity.
- ⑦ Paving way for future space studies and innovations.

Thus Aditya L1 makes a milestone by demonstration of solar science.

(Don't write anything in this area)

Try to link with Mission Instrument



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6. "The missile man of India's" vision and dreams have enhanced India's defense capabilities in the last few decades. Comment. (10 Marks)

(Don't write anything in this area)

Athmanabhai Bharat gives wings to the former prime minister's vision of making India self-reliant in the defense sector.

India's growth in defense sector in the recent past.

- ① Enhanced compound annual growth of the sector.
eg - ~ 11% annually
- ② Focus toward achieving self-sufficiency
eg Project IG.
- ③ Increased investment and FDI opportunities.
eg ~ 70% under automatic route



(Don't
write
anything
in this
area)

④ Commercialisation of space sector.

eg INSPACE

⑤ Achieving various milestones.

eg Indigenous developments
such as Prithvi missile

⑥ Accelerated collaboration with
private sector.

eg Through special wing
under ISRO

⑦ Defence diplomacy - collaboration
with other countries.

eg BECA, COMCASA - USA

Concerns → Inadequate private participation
→ Inadequate funding.
→ Heavy dependence on defence imports.

Way forward → Boosting participation
of MSME.
→ Promoting R&D in the sector.



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7. "NDRF has evolved over the years according to the situation ever since the enactment of NDMA 2005". Discuss about the effective role played by NDRF in dealing with natural disasters. (10 Marks)

(Don't write anything in this area)

Recently Prime Minister honoured NDRF force for their efforts during cloudburst in Uttarakhand.

Effective role played by NDRF -
National disaster response force.

- ① Swift disaster management planning
④ During Wayanad landslide
- ② Efficient mobilisation of troops
④ In small groups
- ③ Capacity building and ~~loss~~ skilling
④ Mid-service training
- ④ Efficient ~~mitigation~~ strategy
④ Swift evacuation through air
- ⑤ Effective engagement of local



communities in management.

(9) Dummy Uttarakhand cloud burst

(6) Proper coordination and management of team.

Addressing disaster

Concerns → Inadequate funding provision under DMA 2005

→ Absence of international collaboration and joint drills.

→ Limited upskilling + reskilling initiatives

→ Lack of adoption of new technologies
(eg) Drones

Way forward → enhanced funding for capacity building.

→ Application and adoption of international best practices (eg) Singapore model

(Don't write anything in this area)



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8. Identify the regions in India that are considered 'hotspots' for landslides. Discuss the unique challenges that landslide-triggered disasters pose for the state, particularly in relation to the livelihoods of vulnerable communities.

(10 Marks)

ISRO Landslide Atlas shows ~40% of Indian landmass prone to landslides.

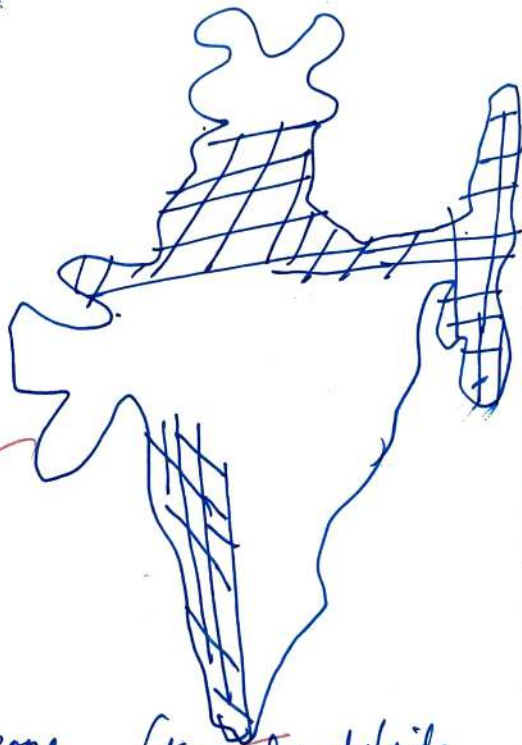
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Hotspots of landslides - India

① Himalayan region -

Mainly Uttarakhand, Himachal Pradesh

- Due to premature topography
- Unsustainable tourism



② North-Eastern zone (fig - landslide area).

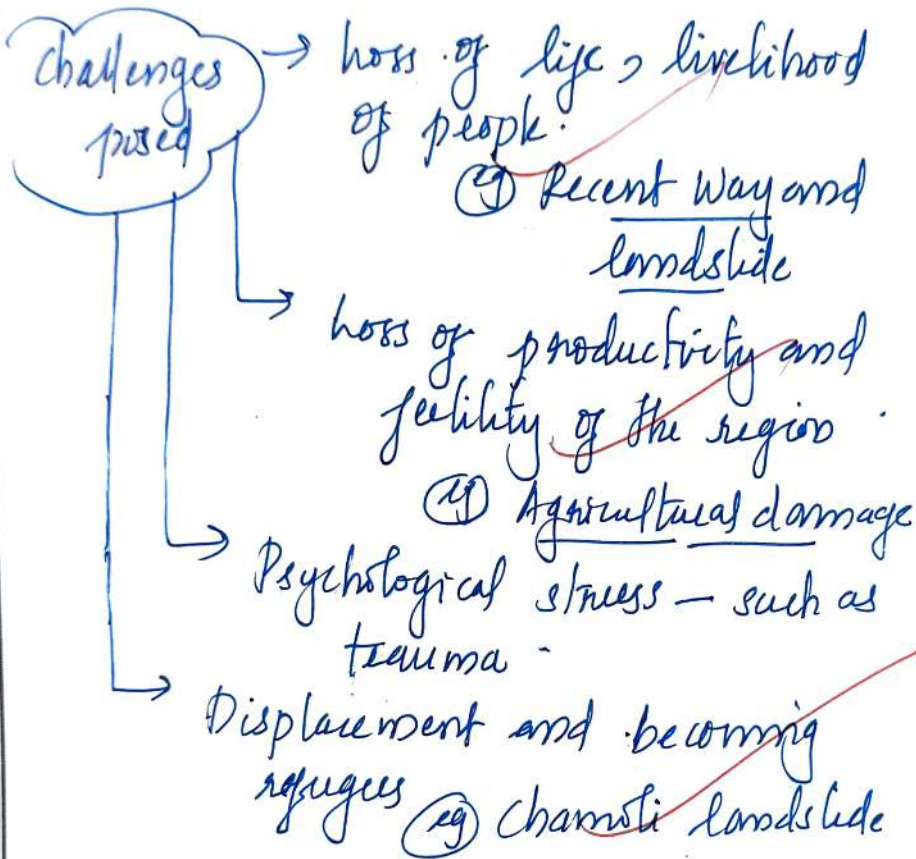
→ Mainly in Arunachal, Nagaland, Garo, Khasi regions.



(Don't write anything in this area)

→ Due to rugged topography and soil texture.

③ Western ghat zone - mainly Kerala and Karnataka - due to undercutting and precipitation.



Way forward → Mapping susceptible areas
→ Early warning system.



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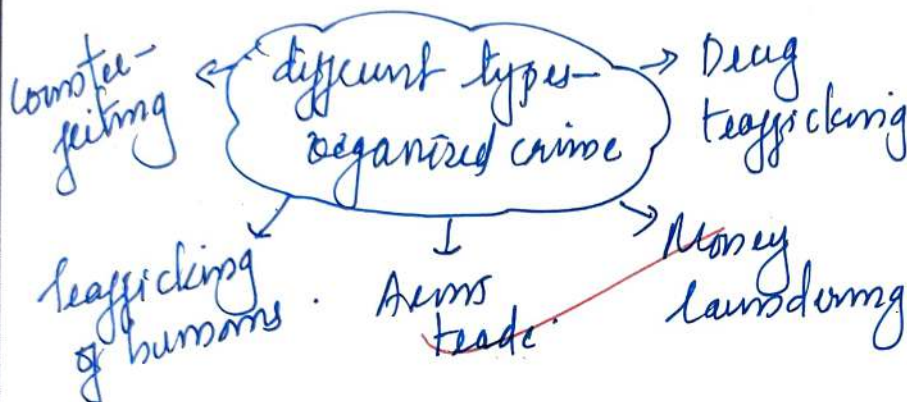
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9. Amongst the different types of organized crimes in India, analyse why drug trafficking poses a unique challenge to deal with, considering into account her credentials as a welfare state

(10 Marks)

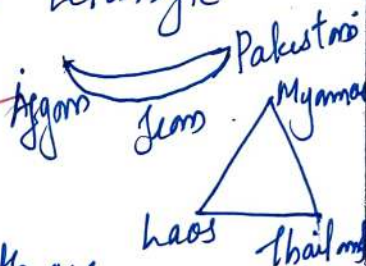
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According to UNODC world Drug Report, there is an increase of 21% drug users in India.



How drug trafficking poses challenge

- ① Proximity to Golden triangle and golden crescent
- ② Jobless growth -
- ③ Punjab - 27% youth are addicted
- ④ Weak law enforcement in drug





(Don't write anything in this area)

trafficking

- ④ No dedicated law at national level.
- ④ Porus borders and hostile neighbours
- ④ Nypal - drug trafficking
- ⑤ Anonymity of trade and transactions
- ④ Courier, postal etc

India's initiatives

→ Banning certain drugs and psychotropics

④ Cannabis

Add para →
govt. mechans

signing international conventions.

④ UN convention on drugs and psychotropics

→ Dedicated wing under MHA - to deal with the menace.

→ Awareness and consultation campaigns at schools.

way forward

→ Special law against drug abuse among youth.



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10. As the economy becomes increasingly digitized, cyber threats have multiplied. Analyze India's preparedness to defend against large-scale cyber-attacks on critical infrastructure. (10 Marks)

(Don't write anything in this area)

According to cyber security Index, India faces one cyber attack in every 10 minutes.



India's preparedness - initiatives

- ① National critical information infrastructure coordination centre (NCIICC) - to ensure safe air, nuclear space.
- ② National cyber ~~co~~-coordination centre - to evaluate threat warning.
- ③ Cyber Swachhata Kendras - enables people to clean their devices.



(Don't write anything in this area)

④ National cyber security strategy - to deal with multiple areas of cyber security.

⑤ Sanskrit Cyber Sanskrit Bharat initiative - protection of user data.

Inadequacy concerns

→ Anonymous nature of digital platforms.

→ Lack of awareness among citizens - 1850-250% illiterate

→ Coordination issues - agencies comes under different ministries.

→ Absence of personal data protection law.

Measures → Cyber security wing under army, navy etc as in USA.

→ Updated malware detectors and antiviruses.

Through the above protection is ensured.



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11. India's increasing GDP growth rate and the widening inequality gap present a contradictory picture. In this light, discuss the reasons behind this disparity and analyze the feasibility of various methods that could be employed to address it. (15 Marks)

(Don't write anything in this area)

According to World Bank's World Development Report, India is one of the fastest growing economies in terms of GDP.

contradictory picture of GDP growth and widening inequality.

- ① Top 1% of Indians hold ~90% of wealth - World Inequality Lab
- ② GDP per capita income nearly ~300 per head whereas ~29x under BPL category.

Reasons behind this disparity-

- ① skewed development model - mainly service-sector led growth, lagging other sectors.



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(Don't
write
anything
in this
area)

② 'Missing the middle problems' -
no focus on MSMEs.

③ Poor provision for addressing
developmental gap.

④ Absence of basic amenities
such as shelter etc

④ Siphoning off, malpractices and
issues of corruption.

④ FCI as food corruption of
India.

⑤ Steady growth of informal
economy - resulting in no upward
mobility.

⑥ Poor infrastructural initiatives -
connectivity at last mile.

Various Govt
initiatives

→ Direct Benefit Transfer
scheme - JAM Trinity.



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- Health care - PMJAY
- Connectivity - National Infrastructure Pipeline
- Grievance redressal - CPGRAMS
- Basic amenities - AMRUT, PMSY
- Food security - Poshan Abhiyan

(Don't write anything in this area)

- Inadequacy → Improper beneficiary identification - inclusion issues
- Delays in implementation
 - Inadequate technological adaptation - e-commerce
 - Absence of last mile connectivity
 - Lack of awareness among people
 - ETA - only 8% farmers aware about PMKSY.

- Way forward → Inclusive development model - inclusion of big workers
- Boost to rural economy, MSME etc.



12. What is 'Middle Income Trap,' and why does it pose a significant challenge for developing economies like India? To what extent do India's current policy priorities and growth strategies help in overcoming this hurdle? (15 Marks)

(Don't write anything in this area)

Post-pandemic period has shown India's gradual release from the middle income trap.

Middle income trap - refers to stagnant growth of manufacturing sectors and MSMEs posing hurdles to economic growth prospects of the country.

challenge for developing countries

- ① Affects economic growth - due to inadequate contribution of these sectors.
④ Manufacturing only $\sim 20\%$ GVA.
- ② Threat to ease of doing business - due to fear of non-profitability



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③ Promotes disguised unemployment and jobless growth

eg Mainly in manufacturing sector

④ Enhances the expansion of informal economy - Informalisation

eg Gig workers

⑤ Promoting socio-economic inequality

eg Top 1% holds 29%
capital - WIL

⑥ Threat to legitimate business - due to parallel economy, black money market.

⑦ Affect bond market - less attractive to the global players.

eg India's BBB ranking in Moody's

(Don't write anything in this area)



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Current policies and strategies

→ Boosting the role of MSMEs and manufacturing sector
(eg) MUDRA scheme

(Don't write anything in this area)

→ Enabling self sufficiency -
(eg) Make In India

→ Formalisation of economy - social Security Code 2020

→ Financial inclusion - DBT, JAM

→ Infra development - NIP

Concerns → skewed model - only focusing on funding.

→ Neglect of agri sector - where it employs ~60% of workforce

→ Limited upskilling, reskilling.

Way forward → life long learning schemes - SANKALP

→ Recognition of Prior learning - PMKVY



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13. Household savings constitute a significant part of India's total savings and are witnessing structural changes. Analyze these changes and discuss how they contribute to the growth prospects of the Indian economy. (15 Marks)

(Don't write anything in this area)

According to NSO, household savings contribute to nearly $\sim 30\%$ of India's total savings.

Structural changes in household savings

- ① Reducing role of agricultural income

(eg) from $\sim 32\% \rightarrow 30\%$



- ② Increased investment in assets.

(eg) Gold schemes

- ③ Reduced spending on newer business models.

(eg) entrepreneurship $\sim 2\%$

full is dynamic not seen



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Current
priorities and
strategies

→ Boosting the role of MSMEs
and manufacturing sector
(eg) NMRA scheme

(Don't
write
anything
in this
area)

→ Enabling self sufficiency -
(eg) Make In India

→ Formalisation of economy - social
Security Code 2020

→ Financial inclusion - DBT, JAN
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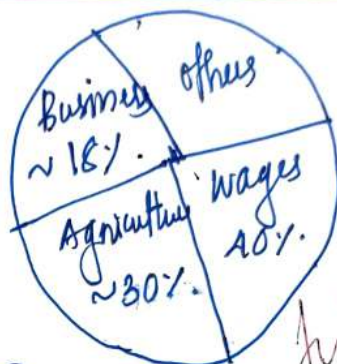
(Don't write anything in this area)

According to NBSO, household savings contribute to nearly $\sim 30\%$ of India's total savings.

Structural changes in household savings

① Reducing role of agricultural income

(eg) from $\sim 32\% \rightarrow 30\%$



② Increased investment (fig - income sources - NBSO) in assets.

(eg) Gold schemes

③ Reduced spending on newer business models.

(eg) entrepreneurship - $\sim 2\%$.



Effects of these changes on economy

- ① Reduced investment opportunities
 ④ In business sector
- ② May affect government borrowing from public $\Rightarrow$ debt trap
- ③ Increase consumption of gold and material assets $\rightarrow$ limited investment in financial institutions
- ④ May affect forex management - due to large cross-border transactions
- ⑤ Affects infrastructural growth
 ④ Due to lack of avenues for disinvestments

(Don't write anything in this area)

now saving rates



for deficit financing.

- ⑥ May affect the govt's ~~monetary~~ policy targets → missing targets under FRBM 2003

(Don't write anything in this area)

Measures → Public expenditure management committee - Rangarajan Committee

→ Schemes - Sovereign Gold Bond scheme to ~~unleash~~ savings.

→ Enhancing the role of alternate ownership models.

⑨ Private owned solar and wind farms.

India's $\pm$ 6 trillion economic goal and fiscal targets depends on unleashing household savings.

65h

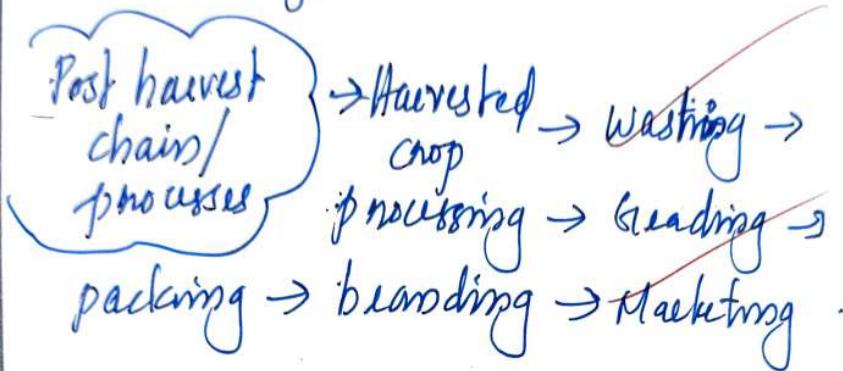


14. How can agricultural extension services contribute to reducing post-harvest losses, and what are India's current efforts in this area to strengthen agricultural sustainability and economic growth?

(15 Marks)

(Don't write anything in this area)

According to ES-2022 - agri extension services ~~enhance~~ the goal of doubling farmers income in near future.



Role in reducing post harvest losses

- ① Integrated cold chain facilities - to enable ~~better~~ storage.
- ② Enhanced ~~processing~~ and selling - lead to ~~quality~~ improvements.
- ③ Proper grading - eliminates the problem of rejections.



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④ Better packaging - enhances the shelf life of items mainly perishables
(eg) Fruits

⑤ Better logistics - enables market access as well as last mile connectivity - cost is ~ 18% GDP

⑥ Bidding methods - ensures fair competition in domestic and international markets.

(eg) Audisam

⑦ Better market intelligence ensures fair price for the ~~ex~~ producers as well as consumers.

India's current efforts

① Storage facilities - Mission on integrated cold chain development

② Promotion of sustainable ~~p~~ bidding

(Don't write anything in this area)



initiatives.

- (1) One district one product
- (2) Value addition to products -
(a) Mega food parks scheme
- (3) Proper grading and standardising
(a) Agmark - APEDA
- (4) Better marketing facilities -
e-NAM, GRAMIN ports
- (5) International collaborations and MoUs
(a) Multigain agreements
- (6) Promotion of exports - through
export promotion councils.

~~was~~ India's Mission of becoming
Viksit Bharat by 2047 relies
heavily on its agri productivity.



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15. How did the Green Revolution impact resource usage in India, and what strategies should be adopted to redesign the next phase of agricultural advancement based on the lessons learned from the past? (15 Marks)

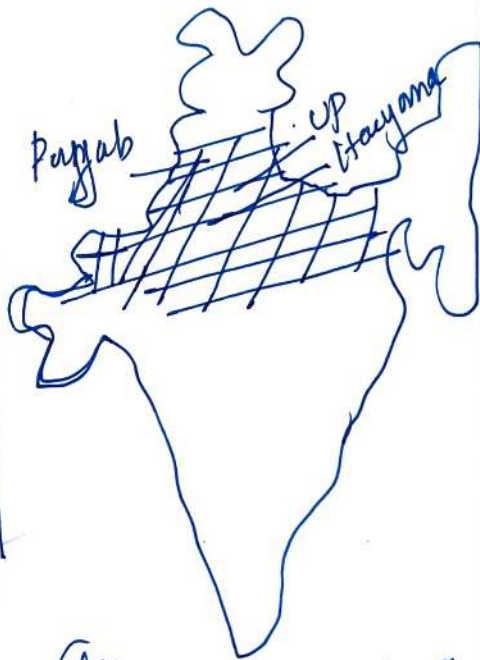
Recently Dr M S Swaminathan has posthumously awarded Bharat Ratna for his introduction of Green Revolution and other contributions

(Don't write anything in this area)

Green revolution - impact on resource usage

Positive impact -

- ① Improved land usage - under Rice-wheat system -
- ② Enhanced productivity - due to GM crops
- ③ Expansion of net sown area -



(Fig - Major regions of GR)



due to extensive irrigation projects.

- ① Enhanced production - due to inputs such as chemical fertilisers.

(Don't write anything in this area)

Negative impacts

- ① Loss of soil fertility - due to extensive chemical application.

② Input $4:2:1 \rightarrow 8:3:3$.

- ② Skewed developmental pattern - only focused on agri cereals

③ Rice-wheat

- ③ Regional divide - main focus on northern states.

④ UP, Punjab, Haryana

- ④ Affected natural cropping patterns and diversity.

⑤ Absence of millet and horticultural provisions.



(Don't
write
anything
in this
area)

- ⑤ Threats posed by GM crops such as one time yield etc
- ⑥ Ground water exploitation - India top in the world.
- ⑦ Soil salinity, alkalisation, eutrophication of water bodies etc

Strategies should be adopted

- ① - scientific farming & practices -
 - ⑨ Agro-climatic crop selection
 - ② Farm zonation - according to soil fertility, water availability.
 - ③ Introduction of integrated farming systems. - poultry, livestock etc
 - ④ Prudent agricultural practices -
 - ⑨ Micro irrigation
 - ⑤ Data oriented policy making.
- India's Mission of ≈ 5 Trillion economy could be achieved through this.



16. What are dark patterns? Discuss its impact on the digital world and suggest measures to address its threat. (15 Marks)

Dark patterns are biased algorithms functioning in the cyber space which has potential negative impact on the cyber infrastructure.

Impact of dark patterns on digital world

① Polarisation of the digital space - due to biased propagandas.

eg Fake news

② enables creation of deep fakes - by concealing identity.

eg Rashmika Mandanna case

③ Manipulative economic practices -

eg Altered rating of products in digital platforms.



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(Don't write anything in this area)

- ④ Privacy concerns such as data stealing, data breaches etc.
- ⑤ Promotes illegal activities through cyber space -
 - eg Recruitment of terrorists - ISIS
- ⑥ Increased number of cyber crimes against vulnerable groups
 - eg Child pornography
- ⑦ Financial frauds and malpractices
 - eg Digital gaming

Measures to address the issue -

- ① Legal measures - Amending IT Act 2008 with special provision under sec 66B
- ② Institutional measures - a special branch under National cyber coordination centre (NCC)



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③ Generating ~~to~~ cyber swachhata portals and cyber swachhata cells.

④ Awareness campaigns - to educate public about the safe use of digital platforms.

⑤ Capacity building - in existing workforce with deep learning programmes.

⑥ Strict regulatory compliance on social media intermediaries to address the issue.

way forward → special fact checking cells - Incognito - Fact checker.

(Don't write anything in this area)



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17. "Mission LiFE can become a mass movement of Environmental Conscious Lifestyle. What is needed today is Mindful and Deliberate Utilisation, instead of Mindless and Destructive Consumption". In this context, what core shifts does Mission LiFE aim to bring about? Analyze its potential in ensuring effective environmental protection. (15 Marks)

(Don't write anything in this area)

Prime Minister of India has introduced Mission LiFE - lifestyle for environment at COP held in UNFCC COP 26.

Key components → Sustainable livelihood
→ Minimum damage
principle
→ Sustainable planning.

Core shifts that LiFE aims at.

- ① Transformation of lifestyle for sustainable future.
- through sustainable livelihood options.
- ② Recognition of loss and damage due to current consumption and utilisation patterns.
- ③ Enhancement of accountability



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toward environment and biodiversity

(eg) Nature community ~~san~~ reserve

① Boost to circular economy - to reduce waste disposal and generation problems.

⑤ Enabling sustainable alternatives
(eg) non-conventional energy - solar.

⑥ Enhancing disaster risk mitigation
(eg) COPR.

⑦ Focusing on traditional medicine systems, public transport facilities etc.

Potential in ensuring environmental conservation -

① Recognition of damage - to environment thus reduces future losses.

② Encouraging green initiatives - reducing pollution of air/water etc.

(Don't write anything in this area)

good



(Don't write anything in this area)

- ③ Ensures soil fertility - as proper guidelines for solid waste management.
- ④ Curbing deforestation and encouragement of afforestation.

- ⑤ Enhancement of biodiversity through modern initiatives

⑤ Miyawaki methods

- ⑥ Preventive measures against disease spread such as dengue, malaria etc.

underline keywords

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Concerns → limited acceptance shown by communities.

- Heavy reliance on coal for economies and industrial needs.
- Inadequate fund provisioning.

Mission LiFE could give a boost to India's Renewable energy goals in revised INDC targets.



18. What is quantum computing, and how does it differ from classical computing?
Considering India's aspirations for technological advancement and economic growth, what are the potential applications and challenges of quantum technology in the Indian context?
(15 Marks)

(Don't write anything in this area)

India's goal for Industrial Revolution 4.0 bears heavy mark on its technological advancements such as quantum computing.

Quantum computing

Refers to advanced computing model using quantum mechanics in its working.

Difference from classical computing

- ① Classical computing relies on bits (0,1) for computing procedures.
It has 2 operating bases -
0,1 & 1,0.
- ② Unlike this quantum computing uses intermediary states such as



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(1,1) and (0,0) along with traditional bit patterns.

③ Thus it enables greater ~~from~~ computing methods as well as the speedy computing.

④ Since it takes into consideration of the latency & reduced computing errors also noted.

(Don't write anything in this area)

Potential applications

① Development of supercomputers.

(eg) Paras.

② Applications in advanced display systems.

(eg) LED - resolution enhancement

③ High accuracy calculators and computing instruments can be made.

④ Enhanced performance of wearables such as digital watches.



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- ③ Enables development algorithms enabled processing systems and industrial devices.

challenges

- ① Inadequate research and innovation.
- India lags in innovation category in quantum computing - WIPO.
- ② Inadequate funding mechanisms at hand.
- ③ Absence of supporting infrastructure
- research labs, testing facility.
- ④ Hurdles in ensuring standards and compliance - no dedicated policy framework.
- ⑤ High input cost and reliance on imports
- 100% Ni imported

way forward

- Adequate funding mechanisms.
→ Fostering Industry-academia linkage

(Don't write anything in this area)



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19. Aspirations of different groups of people when gets entangled with some kind of ideology can turn out to a complex internal security challenge. Discuss. Also analyse about India's approach in dealing with such issues. (15 Marks)

According to WEF - Global Risks Report India is the 7th worst country affected by internal security issues. Good

(Don't write anything in this area)

Internal Security challenge - due to entanglement of aspirations and ideology -

- ① Naxalism - as poor governance as the reason for their socio-economic problems.

(eg) NSCN I/K - Nagaland



Not very relevant

- ② Left wing extremism - (eg: Various internal extreme lineage towards communist ideologies in NE).

(eg) ULFA - Assam

- ③ Khalistan movement - as a result of



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extreme religious sentiments -

(eg) Khalistan group of J & K

④ Left wing extremism - due to extreme lineage toward right wing political front

(eg) UNLA - Meghalaya

⑤ Maoism - due to lineage and ideologies toward Chinese political movement to bring about a just political order.

(eg) National Front (NF)

⑥ Groups ~~as~~ evolving as result of development divide and poor political interventions.

(eg) Manipur blockade

⑦ Land related movements and extremism.

(eg) Naxalite extremists

(Don't write anything in this area)

Good



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India's approach → Comprehensive developmental policies

① PM Devine

→ Counter insurgency strategy.

① Operation Samadhaan

→ Surrender cum rehabilitation schemes.

→ Deployment of forces in small groups
- Operation Greyhound - AP

→ Comprehensive border area management

→ Local community participation

① Sadbhavana - J&K

(Don't write anything in this area)

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Inadequacy → Absence of peace treaties.

→ Inadequate intermediary dialogues.

→ Poor implementation of existing provisions.

→ Poor public perception management

① Bihar - BSF deployment

Way forward → Internal security ministry

→ Deployment of National Security Strategy & force.



20. Discuss the relevance of the 'Fund for Responding to Loss and Damage' established at COP 28. What challenges are associated with its operationalization, and what measures should be adopted to ensure effective and consistent funding to address loss and damage? (15 Marks)

Recently member states have been agreed the Loss and Damage fund at 28th COP held in Dubai, UAE.

(Don't write anything in this area)

Relevance of Loss and Damage Fund

- ① Climate Justice - to the vulnerable countries affected by adverse climate
(a) SDGs
- ② Recognizing responsibility - by the top emitting countries
(a) cat B-developed nations
- ③ Minimizing disaster risk - through adequate measures.
- ④ Enables clean development mechanisms under Kyoto protocol - Annexed countries in developing nations



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- ⑤ Boost to nation's aspirations to meet paris goals - reducing temperature up to 1.5°C
- ⑥ Enables infrastructural growth and connectivity to remote countries.
- ⑦ Fiji.
- ⑧ Empowers biodiversity conservation initiatives.

(Don't write anything in this area)

Challenges associated with it.

- ① Failure of diplomacy - non-support shown by various countries.
- ② Delayed implementation - due to lack of clear guidelines.
- ③ Absence of flexibility mechanism in fund provisioning.
- ④ Improper prioritisation - no targets and no specific guidelines.



- ⑤ Absence of clear & provisions listing funding sources.
- ⑥ Inadequate private and ~~gov~~ community donation provision.
- ⑦ No time frame for yearly contributions.

Measures should be adopted → Proper time frame
- to ensure timely availability of fund

- Demarcation of proper guidelines and rules to strengthen compliance
- Trustee - authorising reliable institution such as WB, ADB etc as trustee.
- Proper mentioning of eligibility criteria for availing funds.
- Support nation led initiatives such as Green Credit initiative of India

Through this sustainable development & SDG-12 could be achieved

(Don't write anything in this area)

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