

**GS Advanced Program 2023****Generic Booklet**Test Name/Code/No. : **#27... (693027)**

Name

Email ID.

Roll No.

Mobile No.

Date

Allotted Time : 60 Minutes**Instructions to Candidates -**

- There are 7 Questions in this Question paper.
- All Questions are Compulsory.
- For all updates, please visit the noticeboard -
<https://noticeboard.forumias.com/gsap-2023/>

Important -

- Answers must be attempted in the QCA Booklet only.
- To upload the Answer Copies please visit to "My Course" section on -
<https://academy.forumias.com/>
- Only those copies will be evaluated which will be submitted before the next class.

Q. No.	Grade/Score
1	
2	
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Overall Grade/Score	

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 **Forum IAS**

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Q.1) Zero Budget refers to no use of credit for procurement of input (seed, irrigation, fertilizer etc).

Natural Farming refers to use of natural inputs and zero use of chemical fertilizers.

Zero Budget Natural Farming

Positives

→ Ecological benefit.

- Crop diversity maintained
- Soil & water conservation
(low irrigation req. & no chemical fertilizers).
- Use of microbes increases the fertility of soil.

Limitations

- productivity is lower than hybrid crops.
- lower shelf life.
- Colour, Shape less appealing
- Non-seasonal crops cannot be produced.

- Economic benefit
 - farmers income increases as expenses on input decreases.
 - decreases import dependence for raw material of fertilizer.
 - efficient utilisation of PSL loans for expansion of farms.

→ Suitability to ZBNF to Indian conditions

- Different agro-climatic zones - provide moisture and, microbes growth.
- Input for Farming available.
e.g. - Cowdung, neem etc part of Indian culture.
- Traditional knowledge and more than 80% marginal & small farmers with low income.

Indian Agriculture and its marginal farmers faces issues of skewed development. & Shift to ZBNF by certain SHF farmers can on pilot basis can help toward improving income.

Overall Grading (✓)

Poor			Average			Good		
1	2	3	4	5	6	7	8	9

Q.2)

Organic farming refers to use of organic materials in farming and also includes rearing of livestock.

Benefits of Organic farming

- Decreases farm debt. - as reliance on fertilizers decreases.
- Increases income of farmers through low input expense on agriculture input.
- Increases export potential - as organic products have high demand in international market.
- Protects crop diversity as it promotes crop rotation, crop diversification.
- Protects soil biodiversity and enhances soil fertility naturally.
- Environment protection - as reduction in chemical fertilizer use.

Challenges in promoting organic farming

- ① Productivity is low.
- ② Off season crops can't be produced.
- ③ Lower shelf life and ~~are~~ less appealing in colour, shape as compared to hybrid crops.

Steps taken by Government

- Paramparagat Krishi Vikas Yojana (2015) - to promote organic farming through financial incentive 20,000/acre/farmer
- Certification of organic products.
- Budget 2022 - promotion of natural farming around 5 km corridor of Ganga basin.

Organic farming has a potential to achieve Sustainable Development Goals which directs nations to protect natural variety of plants and India Vision 2025 which ~~is~~ takes about increasing farmers income.

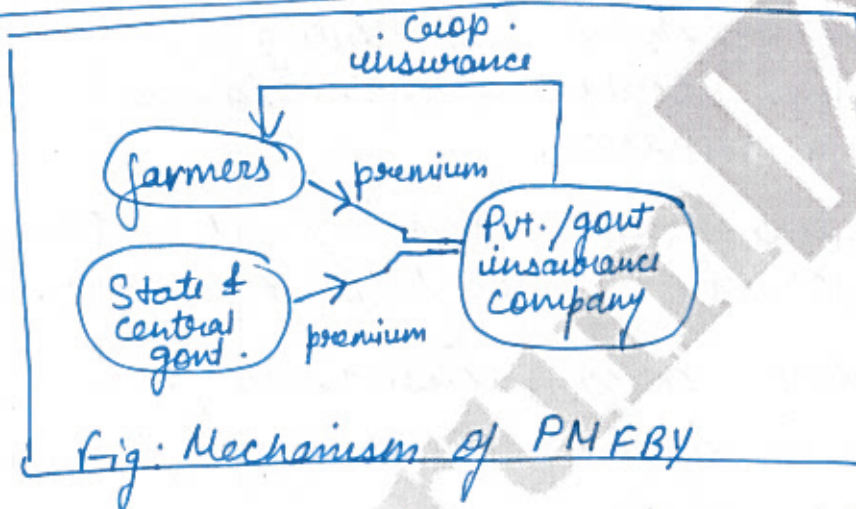
Overall Grading (✓)

Poor			Average			Good		
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Q.3)

Although agriculture contributes to only 18% to GDP but 42% employment in agriculture. And agriculture itself depends on the vagaries of nature. Insurance penetration is very low.

Pradhan Mantri ~~BN~~ Fasal Bima Yojana



- ① Premium - farmers pay 1.5% (kharif rainy crops), 2% (kharif winter crops) and 5% (horticulture excluding oilseeds and pulses) and rest is paid by union & state government.
- ② Insurance - by government general insurance company or any empaneled private insurance company.

Risks covered under scheme

- Crop damage due to pest attack or natural calamity.
- covers pre-during and post harvest damages.

Issues

- State government not giving its share so insurance companies deny insurance.
- State government coming up with own schemes. e.g. W.B & Orissa.
- Does not cover insurance for micro-irrigation technology damage.
- PHFBY 2.0 - decreased central government's premium contribution might aggravate situation.

Insurance in agriculture sector to farmers plays an important role as climate change related extremes are increasing and more than 50% area is still rainfed. Cooperative federalism can help solve the issues associated with insurance.

Overall Grading (✓)

Poor			Average			Good		
1	2	3	4	5	6	7	8	9

Q.4) Green GDP refers to calculation of GDP excluding the environmental damages.

Recently Uttarakhand adopted Green GDP to include the environmental services.

Positives

- A move from mere ^{growth} development and income based GDP calculation.
- Help realise the goal of Paris Agreement.
- Decrease in environmental damage.

Challenges

- Difficult to calculate - as environment services are intangible.
- 'One size fit all approach' - not applicable as ~~di~~ inter-country, intra-regional diversity.

- will see initiation development vs environment debate.
- Challenge for low developed nations ~~to~~ and their economic development.
- choice of base year difficult.

Way forward.

- Tailor based method can be used according to nations.
- Developed nations can lead the way.
- India can try on pilot basis in certain areas.

Gross GDP becomes an important parameter in the background of climate change and environmental degradation.

It can be explored and multinational institutions like UNEP, WWF can dwell more on it.

Overall Grading (✓)

Poor			Average			Good		
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Q.5) WTO's Trade Related Aspects of Intellectual Property Rights (TRIPS) have provisions for protection of patents, copyrights, trademarks, trade secrets etc.

TRIPS

- formed in 1995 - recognised product patent for drugs, chemicals and food.
- directed developed countries to align their patent protection law in accordance with Trips in 1995
- directed developing countries to align their patent laws by 2005.

Provisions of TRIPS for patent waivers

- Voluntary licencing - the original company gives suo-moto rights to other company to produce drugs.
- Compulsory licencing - in this case the government allows some domestic company to

manufacture drugs by overriding the patent rights of original company.

- In both the cases royalty and compensation is given to the original manufacturer of drugs.
- Also, both VL & CL are applicable only when there is public health emergency.

Fight of developing countries for Patent waiver

- Doha round - developing countries demanded for flexible patent laws.
- COVID-19 - South Africa and India demanded for patent waiver for drugs, vaccines, diagnostic and therapeutics essentials.
- Developed countries only allowed vaccine patent waiver and that too without technology transfer.

Positive effect of Patent waiver.

- ① will decrease the price of drugs - increase accessibility to lower income countries.
- ② Promote generic medicine.
- ③ will counter vaccine hegemony and hoarding by developed countries.
- ④ will help fight diseases in 3rd world nations.

Limitations & negatives

→ will disincentivise research and development.

→ Quality may be compromised.

IP rights such as patents should not become a barrier to accessibility, availability and affordability of essential life saving vaccines and equipments. Patent waiver by TRIPS can help towards equity between 3rd world and 1st world nations.

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Q.6) Fertilizer is an artificial chemical prepared in factories to enhance soil nutrients. Post green revolution average fertilizer consumption in India is 133 kg/hectare (one of the highest in the world).

Issues plaguing the fertilizer sector

- ① Huge financial burden - around ₹1 Cr on government.
- ② Huge backlog in subsidy allocation to industries.
- ③ Huge import dependence - as raw material for N (30% imported), P (80-88% imported) & K (100% imported).
- ④ Inefficient and disproportionate use of Urea - Ideal N:P:K ratio is 4:2:1 while in India it is 8:3:1 and in states like Punjab it is 31:5:2

- ⑤ Inefficient production in industries lead to shortage which is aggravated by smuggling to Nepal and Bangladesh.
- ⑥ Used in non-agricultural purpose - e.g. Textile, Chemical industries.
(~~41%~~ ^{41%} subsidised fertilizers go here).

Measures taken by Government

- Nutrient based subsidy (2015)
 - gives subsidy to industries based on weight proportion of different nutrients. (Urea not covered).
- Neem coated urea (2015)
 - to avoid use in non-agriculture industries.
 - increased absorption by plants as it slowly mixes with soil.
 - decreases the use of pesticides.
- Soil health card.
 - assessment of soil according to 11 parameters including macro nutrient, micro nutrient,

physical features. Recommend quantity of fertilizer to be used.

→ DBT to factories - after pos to farmers by noting their identity proof.

Way forward.

- Use of Nano urea to enhance efficiency of fertilizer (economic friendly 2ba2).
- Explore DBT to farmers using E-RUPI technique.
- Bringing urea under NBS scheme.
- Promoting natural / organic fertilizers.

An efficient fertilizer usage in India can help decrease fiscal deficit (by decreasing fertilizer subsidy burden) and import bill on crude oil (raw material for fertilizers).

Overall Grading (✓)

Poor			Average			Good		
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Q.7)

Gross Domestic Product refers to the total value of goods and services produced within the territory of a country in a given time period.

GDP

→ It is calculated by NSO

→ measures an indicator of a country's growth.

Difference between computing methodology

Parameter	Pre 2015	Post 2015
Base Year.	2004-05	2011-12.
Market Price & Factor Cost.	Calculated on Factor Factor Cost.	Calculated on Market Price (which includes taxes & excludes subsidies).
Industrial Data.	From IIP and ASI	from the data filled by corporates to M.O.C.A.

Weight to Labour

a uniform weight to Labour

Effective Labour Price - different weights to owners, high income labour workers, labour.

Agriculture

On the production of agri output.

→ Considers other factor e.g. Livestock.

Manufacturing sector.

Only few sectors covered.

Multiple sectors covered.

Financial sector

Inclusion of few sectors like mutual funds etc.

Multiple sectors

like stock market, mutual funds, stocks with brokers etc.

The methodology that was adopted in 2015 represent multiple sectors and is in accordance with the changing economic model of the nation now.

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Poor			Average			Good		
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