	Generic Booklet
	Test Name/Code/No. : . 973084
Name	
Email ID.	
Dillan ID.	
Roll No.	

Aliotted 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	
3	
4	
5	
6	
7	
Overall Grade/Score	3

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17.589_693024_1910104964_(2022-11-29.14:57:01) **Start Writing Here** The coal sector in India faces plethora of issues, Q.1) which aggravate into coal crisis annually Critically analyse. Coal accounts for 55%. of the country's Reasons for coal crisis (i) Low coal inventory at themal power plants (ii) Sudden surge in demand as the economy recovered after Covid - 19 prices of coal due to Shortage in China Rusia-Musine was (iv) Heavy rains -> slowdown 12 Coal deposits in the supply of coal to khumal pource plants (V) Poor financial state of (vi) Thurnal power plants are operating at a

low capacity

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(i) Inter-ministerial team set up for monitoring supply of coal to thermal power plants

(ii) Daily shipments of coal to power generators

(iii) Power ministry has primitted power generator using botal coal to use up to 10%. blend imported coal

(iv) The government has asked themal plants with captive coal mines to boost their coal output

The coal crime in India must be solved by research and inprovement in transport and infrastructure along with simplyfying regulations

Poor				Average			Good		
1	2	3	4	5	6	7	0		

The National Oligital Communications Policy 2018 Q.2) the grand objective of providing adband for all In this context, discuss the Policy and the steps to reform the Illecom sector Morn The National Digital Communications Policy 2018 seeks to unlock the transformative digital communication network to achieve the goal of digital empowerment > Connect India -> to create a cobust digital communications inhastructure eg. Bharat Net, Jankiji -> Sturghening Satellite communication Features -, People India -> to enable next generation technologies through Innovations Investments IPR generation > Seave India > to ensure soverighty, safety, security of digital communication -> Ensure not newtrality is upheld -> Establish data protection regime

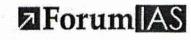
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<u>(leban - muel</u> divide
II: P & act
High spectrum Challenges in Predatory pricity Highly debt ridden Highly capital intensive
Highly delt ridden Highly capital intensive
super ration,
(i) PLI schemes for manufacturing of Telecom k networking products
t networking products
(ii) BharatNet project -> 1,77,550 gram panchayats made service ready in mid 2022
made service ready in mid 2022
(11) PM-WANI - Promision of public Wife services
iv) Rationalisation of Adjusted Gross Revenue
(iv) Rationalisation of Adjusted Gross Revenue 4 Non-telecom revenue excluded
V) 4 year moralouium on AGIR payments

The National Digital Communications Policy propares India for the 4th Industrial revolution and tackles regulatory issues to people India is believe market

i salan Ya	Poor			Average		Good		
1.1	2	3	4	5	6	_ 7	8	9

Oil has further Q.3) energy security concerns discuss India faces with regard and various steps taken to ulies on ourseas punhases to 85% market security concerns Ukraine - Puris War - Ban on Russia by EV Reduced investments Cut down in production



Overa	III Grading (\checkmark)		
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an	um costa		tairable growth
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9			
(iii)	Developmes	nt of City Gas	Wishelton
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(ii)	Enhancing	efficiency though	National Mission
	Geothumal	tional energy so energy is being	explored
	Non-conven	tional energy so	unces like Islal
• /	PM (ljiwal	accessibility to con lucus	ing clean ful
(i)	Increasing !	accessibility to a	lean energy >
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Q.4) 172 189, 6930 160 1910 1614964 (2082 11-29 14:57:01) help India in eachieving its commitment to achieve Net zwo emissions by 2070. Mention the boost given by the government to the sector through various schemes

India's renewable energy generation is
the fourth largest in the world the tacyet
is to achieve 500 GW from renewable energy
by 2030, out of which 300 GW is expected to
come from solar power.

Targets achieved through solar power

- (i) India ranks 5th in solar power deployment contributing ~ 6.51. to global cumulative capacity of avoured 709 GIW
- (ii) India added 10GW to its cumulative cap intalled capacity in 2021 via
- (iii) India had 361W capacity for solar cell production and 861W for solar panel production capacity

IForum | AS 172: 89_693024_1910104964_(2022-11-29.14:57:01) Skewed focus - only 6.3 GW Challenges from Roof top solar > dimited financing Low domestic manufacturing capacitie Government initializes (i) PH scheme for solar panel manufacturers (ii) National Solar Mission 100%. FDI via automatic voide in renewable enugy sector iv) Tariff and non tariff barriers to check imports (V) Solar PV manufacturing India must focus on dweloping an ecosystem similiae to solar parks, with the availability of RkD centus, entre supply chain, universities, laborataires

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

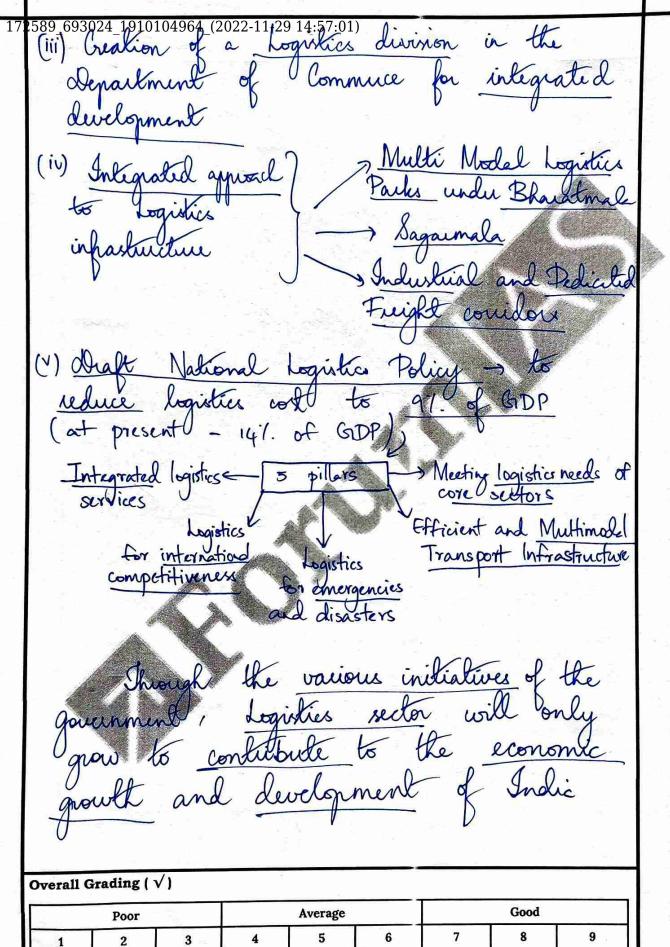
72580 693024 1910104964 (2022-11-29 14:5761) whe played by dogisties sector in the economic development the Walion dogistice upes to process of managing how resources are acquired, stored and transported to their final distination in the whole supply chain Role in economic development (i) It provides livelihood to more than 22 million pupile (ii) It also helps in the development of manufacturing, worknessing and infastricture E-way bill Jastag has reduced

tuck turnaround time by 20%.

(iv) According to Economic Survey, upgrading the sector can lead to in indirect logistics cost, with a growth 10.5%. between 2019 and

(v) It is the backbone of India's inturational trade and will help in diversifying

172589_6930[4_1910104964_22021-11-2014:51:01) moducts and > Value added Warch 24/. Transpor Low level of technology adoption Constraints No coordination huntilized between transport, warehousing, fleight forwardly and value added logistic Undudwelsned Poor connectivity inhastructure Measure taken Introduction of GST -> quater economics of scale (ii) Grant of Inhastructure status to Logistics



alternative to fossil are not a green Q.6) land resources doesn't food production and carbon and cuts. paradox of live-fuels Bio fuels are commonly seen as a guenu alturaltie as cude E-10 saves Why are Bio feels not a green alternative (i) Dedicating areas for hispael production increases Competition for land a lot of land and water yield a small amount of ful ricent use that makes dedicated use of

emissions

does not genually cut greenhouse

72589 693024 1910104964 (2022-11-29 14:57:01) - shound 3/4 of world's vegetated land is already being used for forest products and this demand is expected to use by 201. by 2050 - Diverting land, under such circumstances to biguels mean sacrificing much needed food, timber, carbon storage Way forward (i) Expansion of Biofuels production must sest on 4 pillars Innovation = Bioficels - Infrastructure Capacity Building of expansion a global market (11) It is important to note that most pight starue not because of shortage of food but because of pucharing power to buy (iii) Concentrating production of bioprels from

172589 dasax librard 964, (2027 13 1/2) 14:57,01 ine agricultural land being left for food crops (iv) Promoting integrated food-energy systems le increase global yields second genuation hispuls produced from non-edible parts of crops, animal fats etc (vi) Encouraging research on identifying spectrum of biopiels It is important to look at lood enugy security simultaneously the hamework of regional local development strategies

Poor				Average		and the	Good	
1	2	3	4	5	6	7	Q	0

Q.7)

So gun Hydrogen the fuel of the future? Critically analyse.

The use of freen Hydrogen is currently at a global demand of to million metric tons. It is purduced by electrolysis of water using renewable energy and has a lower carbon footpirit.

Environmentally friendly by products

Flirible energy carrier

Creation of new

laid stability

for long periods

Jewer emissions

Potential for India

> 194 plant was set up in Assam > to
make the country ready for the pilot
scale production of hydrogen

geographic location and helps in guen hydrogen production sectors where direct promoted isn t electrification inport dependency on famil Can reduce fuels. Challenges ertracting green (i) Economic sustainability hydrogen is poor (ii) High cost for maintainence supporting infastructure -> Storage and fuel cell Carbon Capture and nascent stage are at iv) Requires heavy investment incare of of Hydrogen as a fiel Commucial wage (V) Increased leakage risks fire accidents (vi) Othe renewable energy sources can module low Cost

172589_693024_1910104964_(2022-11-29 14:57:01) National Hydrogen Energy Mission a green hydrogen hub introduction of consumption obligations focusing on Research & Development manufactuing Overall Grading ($\sqrt{}$) Good Poor Average 5 9