Forum|AS

ACADEMY GENERAL STUDIES

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Total Control	Id.			Roll No.	191003432
	le No.			Date:	7/9/19
	Time Allowed	: Three Hours	Ma	iximum Marks:	250
INDEX TABLE		TABLE	INST	RUCTION	
No.	Max. Marks	Marks Obtained	1. Do furnish the appropri (viz. Name, Email, Roll No. 2. There are TWENTY que 3. All questions are comput 4. The number of marks indicated against it. 5. Answers must be writted the admission Certificate, on the cover of this Country and the space provided. Word limit in question adhered to. 7. Any page or portion Question-Cum Answer Booff.	o, Mobile). estions printe disory. carried by a n in the medi , which must Question-Cun ded. ions, if spec	d in ENGLISH. question/part is ium authorized in be stated clearly n-Answer (QCA) ified, should be
tem	arks:	1	Start Time 2:00 PM	End Time	5:00PM
			Mode Of Examination :	Online 🔽	Offline 🖂
			ECN CODE:	Evaluation I	Date:

				Average	Poor	Very p
Parameters	Excellent	Very Good	Good			
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Handwriting						
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ADDITIONAL COMMENTS

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vithout a robust manufacturing sector." In this context, discuss the need for a new industrial policy in India.

(10 Marks, 150 Words)

Industrial sector contributes to soughly 25% of country's GDP. It is also the second largest employer behind agriculture.

Manufacturing & Sector

Reduces povexty

1) Employment intensive

2) Relieves large population in agriculture which is 49% of total workers

3) Rettex payment than agriculture

Sustain economic growth

-1) Laxge oppositurity for export. eg: Mobiles

2) Highex efficiency than agriculture

3) Possible decentralised growth based

on infrastructure eg: Handicrafts

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(Don't

Indian industrial policy has last been updated in 1991. This necessiates a new industrial policy

-) Account Pox increased role of Put. Sector
- 2) Export oxientation instead of impost substitution
 - 3) Focus on Research, Intellectual Properties
- 4) Development of Noxth East India.
 Pox exposts to ASEAN.

Given the sise in

FTAS and young demography, a new industrial policy ensures better coordination.

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What is Land Degradation Neutrality? In what ways it can act as a centrepiece chieving the goals of Sustainable Development Goal by India. Discuss (10 Marks, 150 Words)

Land Degradation means to destroy
the Pertility of land and make it
inhaspitable for tree, plant growth.

Land Degradation Neutrality (LAN) aims

to be net neutral in terms of overall land quality. It ensures that

Pox every piece of land dagsaded, equal amount is made Pextile again

eg: CAMPA Punds aim to reloxest areas
when are industries cause deforesty

Land Degradation

Deforestation

Pollution

Deforestation

Pollution

H

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Ouality of India's human capital is the major impediment in reaping the bens of demographic dividend." Examine. (10 Marks, 150 Words)

Endia is set to become the most population and will peak at a population of 160 Cxoxe (UN xepoxt).

Euch a large population needs to be properly trained to achieve development.

Quality of Acapital as impadiment

1) Low Productivity ag: Disquised wempty

2) Low employability

Arand Makindra said 95% of engineers

Arand Makindra said 95% of engineers

Arand Makindra said 95% of engineers

3) Job loss by automation.

20% of low skill jobs are set

to be automated by 2030

(HSBC)

4) Low wage due to low skill.

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Measures	needed

- Skilling es: National Usbur Livelihook Mission.
- 2) Improved health of Ayushnan Bhaxalh
- Digital Skills eg: Digital Saksharata.
- 5) Irexeased Pinancial availability es: MUDRA Yojana:

Only with a good quality human capital, demographic disaster

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(10 Marks, 150 Words) "Despite bringing in new crops, technologies and markets for farmers, contract rming excludes the smallholder farmers." Analyse.

Contract Farming is a legal contract between a producer and buyer to purchase a fixed amount of crop at a producer mined price:

It has several advertages)

New cxops like exotic vegetables and cexeals can be grown.

2) New technologies like micro ixxigation due to loans Prom buyers

3) New maxkets by leveraging expertise of huyers exi Export of basmati.

4) Incxessed investment Prom buyer
eg: Haldisam's contract in Grujaxat
led to improved investment Pacilities

5) Price contract due to contract

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	But small holdex formers have problems
	1) Los Lack of legal expertise in case of dispute
	Es: Gujasat tomato Pasmas agitation.
	e) Information asymmetry causes biased
	3) Exploitation due to lack of quality
	4) Companier prepar to deal with larger
	Paxmexs. as they have better
	Thus Swaminathan Committee
	has suggested to increase the cooperativisation for better result.
	Coope xa

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5) "Plant Variety Protection law regulating intellectual property rights in seeds is nsidered indispensable for seed sovereignty and thus food sovereignty." Examine.

(10 Marks, 150 Words)

Plant Variety Protection Law (PVPL) deals with Intellectual Property Rights (IPR) of biological entities like plants, seeds.

Indispensible Pox Soad Sovexaignly

1) To prevent biopixacy ie, stealing traditional rights

2) Regulate biopxospecting i.e.,
Use of biological materials POX IPR.

3) Ensure ownexship of Paxmers

4) Reduce cost to puxchase seeds .: Faxmers can use form produced

5) Regulate use of terminator gene

6) Enable Paxmers to produce bybrids

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Food Security
) Ensures Indan seeds are not
DErsuses Indan seeds are not illegally copyontrade marked
Improve a availability of seeds
3) Also ensures nutrition security
By covering diverse plants.
4) Improves yields based on hybrids
Thus PVPL is an
impostant law ensusing
impostant low ensuring genetic ownexhip Rul of late, few companies tried to
But of late, few companies tolled to
But of late, few companies tolled to
But of late, few companies tried to Circumvent the low and registed Por seeds and increase cost.
But of late, few companies tried to But of late, few companies tried to Circumvent the law and recorded cost. a few seeds and increase cost. This context, it
But of late, few companies the to companies the to companies the bus and segisted ciscumvent the law and increase cost. a few seeds and increase cost. In this context, it in prove databanks
But of late, few companies tried to Circumvent the low and registed Por seeds and increase cost.

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6) What do you understand by Circular Economy? Describe the role of Circular conomy in increasing productivity and sustainability. Discuss the steps taken by dia towards being a circular economy.

(10 Marks, 150 Words)

Circulax economy means an economy in which not goods produced axe equal to net goods consumed

In such an economy, thousant

Account Deficit

Increased productivity

DErsuxes investment availability

2) Healthy competition

3) Distribution of profits to domestic

entitions

Increase sustainability

1) Healthy Pokeign chokency Kesexves

2) Low external debt

3) Sovereign monetary, Piscal policies

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Steps taken

) Attempts to increase investment

Recapitalisation of banks

2) Taxing of Foxeign PoxtPolio. Investors

3) Improving expost connectivity
eq: Sagarmala.

4) Ease of Doing Business Kank brought to 77 from over 140.

Frathex stanctural

Yelowns like laboux codes also

indivertly promote & circulax

economy

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O.7) Coalition for Disaster Resilient Infrastructure (CDRI) could fill a real gap at a time when climate change-induced floods, cyclones and fires have multiplied in destructive force. Analyse.

(10 Marks, 150 Words)

India is estimated to loose 10% of GAP by 2050 due climate change indused disastexe like Ploods, & Pamines according to oxform xepoxt.

Traxeased climate change xalated destruction

- i) Floods => i) Exxatic sainfall
 ii) Sudder buxst eg: Kexah,2019
 - 2) Cyclones => i) Traxeased Axabian sea cycling
 ii) Greatex Poxee ag: Phailin
 - 3) Fixes -> i) More Prequent Pixes due to global waxwing
 ii) Dry winds eg: SantaAnna (california).

In this context, CDRI

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•	7	2 2 2 2
Role	0	CDRI

)Floods -> Can aid in building both resiliant and easily repaired infrastructure and easily read in Puzi, odishas

2) Cyclones => Building codes designed to withstand high winds

3) Fixes =>i) Cxeation of monitoring sites
ii) Fixe breaks in axeas.

Given the large scale destruction that occurred this destruction that occurred this year in Kaziranga Park due year in Kaziranga Park due to to Ploods, it is now time to adopt a resilient infrastructure adopt a resilient infrastructure

Franciscok and CARI.

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B) Discuss the contribution of Vikram Sarabhai in the advancement of space schoology in India. Also, enumerate challenges faced by Indian Space Research organisation in the commercialisation of its Space programme.

(10 Marks, 150 Words)

Viksam Saxabhai was among the leading Indian Scientists in easily investment in space technology.

Contribution

1) Role in establishment of ISRO

2) Eaxly proposal of sounding rockets

3) Contribution to satellites. eg: Asyabhatha

4) Training of fixet Indian in space Rakesh Shaxma

In light of his contributions, the lardex of chandragean 2 has

Challenges in commexcialising ISRO

Registration of Intellectual Property

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2) Lowex	COM	peters	iv	- ger	stationary
laurah	<u>~</u> .	Chase	ally ?	ISRO	PXiositieses
Low Eo	Ath	Debit.	J		. Level

- empetition from Space X. ESA, etc.

 Jewly established commexcial

 axm (New Space India Limited).

wise secently established a

Secord 106 Satellites sime on

yela launch of PSLV

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9) What is a cyborg? Enumerate different application of cyborg in humans. Also, (10 Marks, 150 Words) scuss various concerns arising out of it.

an axtificially enhanced Oxganism. It gives the possible.

Application in humans

Heavy lifting ability

2) Fastex thinking: eg. chip proposed by

d xasiliance to physical

Shocks.

4) Makes certain types of vehicles

eg: In mining operso

axtificial exp

eg: cyber leg.

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Question Interpretation

Total:

0.10) What are the different challenges arising out of social media? Also, suggest additional measures to tackle the menace of social media. (10 Marks, 150 Words)

India had 450 million smaxtphone usexs in soir and is set to axease to 850 million by 2023

This leads to a bage number of usexs of Social media

Challenges

1) Privarcy concerns. eg: Misuse by cambridge.

Analytica.

2) Cybex Security

3) Cybex bullying on social media. 4) Extremism. eg ISIS use of Pacebook.

5) Maripulating votex behavioux eg: Russian alleged involvement in US.

6) Fake news = eg: News of child kidnopping

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,11) What is gene-editing technology? Also, enumerate the ethical and biological oncerns associated with the gene editing in humans. (15 Marks, 250 Words) "moleculax scissors" to edit paxts of a gene to produce more beneficial gene. CRISPR - CAS9 to Treating genetic disease mpsove milk, neat production Tackling vactor base diseases eg! Dengue by making Visit us : www.forumias.com Call us: 011-49878625, 9821711605 Email : student@forumias.academy

Ethical concern

Ming animal genes in plants

2) Human animal expeximentation

3) Fixing responsibility fox Pailuxe

4) Humans playing god"

5) Use Pox biological wax Paxe

Biological concern

1) Lack of complete understanding of gene expression

2) Stanford experiment found altering gene at one position showed effect at mother.

3) Possible mutations

4) CRISPR technique was found to induce cancer in rate

5) Creating designer babies

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In light of secent

misuse by a scientist in china

misuse by a scientist in china

to expeximent on human, it

to expeximent on human, it

is necessary to regulate the

technology.

Indonesia to a second the

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Q.12) "Investment, especially private investment, is the "key driver" that drives demand, creates capacity, increases labour productivity, introduces new technology, allows creative destruction, and generates jobs." Examine. Also, bring out the factors inhibiting the flow of private investment in India in recent past and suggest measures to address them.

(15 Marks, 250 Words)

Investment in India is cuxxently at a low of 29% of GIDP while at a low of veeded fox a attention of the sale of the sale of sustained 9% growth sale.

Investment as key dxivex

1) Drives demand Pox capital goods

2) Cxeates capacity to produce more

3) Inexerses laboux productivity by

Skilling. Skill India

4) New Feehnology is used fox

efficiency of Internet of Thing

5) Creatively destroys old infrastructure

6) Grenesates jobs in new axeas

g: Axtificial Intelligence
jobs:

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factors inhibiting private investment of NPAs in banks 2) Cxisis like ILLES, PNR Scam 3) High Savings! investment ratio. 4) Lack of owneres of mutual Punds 5) Shallow bond market 6) Definition of MaMEs based on investment comes companies to invest low to qualify for MSME exemption Measures Recapitalisation of bourks 2) Coxpoxate Governance voxu. 3) Effective audit to pievent

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4) Improve	essexeus	to	mobilise
	investment		1

- 5) Easing of FDI roxus
 eq: Budget amouncement on aixline sector
- 6) Bringing uniformity in MINE definite
 by govt.

Mobilisation of investment

dequises "Blue Sky Thinking" as Suggested by Economic Survey.

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Q.13) Discuss the significance and salient features of FAME II) (Faster Adoption and Manufacturing of Hybrid Electric Vehicles) Scheme. Also, evaluate the impact of the FAME II scheme on the promotion of electric vehicles in India.

(15 Marks, 250 Words)

A SECTION OF THE PROPERTY OF T

FAME IT Schene aims to promote Electric Vehicle usage and make India a manufacturing had for electric vehicles

Significance Charging infrastructure

Marketing, promotion

New technology

India aims to be increase EV2

So as to tackle problems like

so as to tackle problems like

pollution, import dependence on petrolone

Salient Features

Deyond 2020 till 2024-25.

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- Suppost fox pilot projects
- 3) Sepexate Charging lines electricity distribution
- 4) Developing indagarous technology eg: Low weight frame

In line with these aims, govt. proposed Z1.5 Lakh IT on EV: and seducing to

- 1) will mobilise industry xe souxce
- 2) Provides public investment in
 - 3) Sets taxgets for government and Industry 11 11 1

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But, the FAMEIL is
suffering from lack of consistency
in policy. Intial taxget of 100%
EVs by 2030 has now been reduced to 301. due to industry concern.
to 301. due to mansey
By acrosing 1
consistency, FOX automobile sector Platfoxne Pox automobile 50 ctor
Platfoxue Pox automos. 7.1. of GIDA.

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Q.14) "Revival of Inland Waterways in India is a new step towards economic development." Bring out the factors that hamper the progress in the development of inland waterways in India? Discuss mitiatives taken by the Government of India in this regard.

(15 Marks, 250 Words)

India has an inland water

network of 14,000 km which
when capitalised can significantly
when capitalised can significantly
seduce transportation costs.

(Factors hampering)

1) Lack of investment

2) Low last mile connectivity of

waterways to industry.

3) Lack of availability of vehicles
11 books. Most of the mechanise

like imposted

4) Lack of inland poxts

5) Difficult navigation

eg: Low depth in Peninsubx India.

6) Compromise between envisonmental concerns
and development.

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Initiatives baken

1) Cxention of 101 National Waterways

2) Creation of inland texminals ex: Vexansi

3) Roll on (Roll OPP facilities fox 800d

connectivity.

4) Creation of database Pox water

level using GPS.

5) Cxeation of multimodal logistic parks

Pox sail connectivity.

6) Synexgy with Sagarmala Pox imports.

Due to these efforts,

decently, first inland, water container transport was conducted by Pepsi

Prom Haldia to vaxorasi.

Unleashing inland waters

helps achieving the totaget of reducing logistic costs from 14% to 10%

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Q.15) What do you mean by Environmental Impact Assessment? Discuss the major reasons that have limited the success of EIA. Sugges measures that can be taken to make EIA an effective tool. (15 Marks, 250 Words)

Emixon neutal Impact Assacsment is conducted to evaluate the effect project on its envisonment

It is used to deside permissions, and calculation of Funds Pox check Compensationy Afformatment Fund.

Reasons Pox limited as

2) Lack of specific rooms based or industries like thermal power

3) 3rd paxty EIA conducted by cextain universities, NGOs lack capabilities

Pex technical study.

4) Ingraxing EIA in castain cases eq: Lineax projects like roads.

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ublic_ involvement in EIA

are allowed to conduct methods till they get chasance.

Specific EIAS

conducting team.

Recently, Madras High categoxically

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that old thinking of economy and ecology as antagonists must be stopped. This spirit needs to be Pollowed in FIAS.

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Q.16) Illustrate with examples the menace of plastic pollution. With reference to Plastic Waste Management Rules 2016, discuss the measures to be adopted to mitigate the impact of the plastic wastes in India. (15 Marks, 250 Words)

Plastic pollution is set to contribute to 15% of global CO2 eminissions to 15% of global CO2 eminissions by 2050. This is highex than by 2050. This is highex rehicles. That produced by motor rehicles.

Examples

1) Formation of garbage islands eg: Great Pacific patch.

2) Biomagnification eg: Microbeads preserve in birds

3) Danage to aximals eating them eg: Many cours have stomach blocked by placetic.

4) Acting as vectores

eg: Cextain bacteria in Andaman was
found to have travelled on Plasting
plasting

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5) Filling landfill sites

6) Leashing of chemicals

eg: Bisphanol-A

7) Togging of drains egichemai Flood,

Measures under Mastic Waste Management Rules, 2016

1) Extended Producex Responsibility (EPR)

2) Segregation by large producers

3) Limiting minimum Size (thickness)
of plastic bags to 50 mic xons.

4) Ersuxing disposal secycling Pacilities
by government

5) Encourages put. posticipation
Pox exacting a plastic economy
to secycle.

6) Ban on Imposte of castain plastics. eg: PET bottles

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Q.17) Despite India's outstanding growth in the last two decades, low pay and wage inequality remain serious obstacles towards achieving inclusive growth."

Comment. Also, suggests the way forward for rationalising and streamlining the policy for minimum wages.

(15 Marks, 250 Words)

India has achieved a growth of ovex 71/2 in the last two decades. But this growth has been lopsided.

(Low pay)

1) 49% of agricult population is engaged in agriculture with low pay.

2) Minimum wages haven't bee imposed practically

3) Avexage Pex Capita Irane is

Still undex \$5000 (PAP)

Inequality in wage

1) 70% of GIDP is distributed as

PXOPits & and not wage

2) Skill premium on high skilled workers

3) Rusal - Uxban, gendex gaps

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factors prevent Way Posward 1) Simplification of labour laws into 4 laboux codes - code proposes nation wide coverage of use to informal Sector which employs 90% OF population. 4) Re Skilling workers for higher wage 5) Inoxeasing contribution to 25% a in manufacturing policy.

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Social Responsibility Punds to improve agricultural productivity and doubling the wages can help in a liby rose)

More inclusive development.

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Q.18) The space war would destroy the intrinsic trust and cooperation necessary to maintain the systems deployed in space for peaceful purposes Examine Also, discuss the concerns related to space debris with respect to India's mission Shakti.

(15 Marks, 250 Words)

Recent Anti Satellite (ASAT) test by India has seignited the delate on space wass.

Space fox

Communication

Space fox

GPS

Surveying

Disastex response

Research

Space wax destroys trust needed because:

) creates axus sace

eg: Us exected space command

2) Possible destaution of peaceful

satellites.

3) Reluctance to Shaxe information

and technology.

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coopexation is needed

Druxthex Science collaboxation

- 2) Reoxiant satellites to prevent collision
- 3) Multilatexal projects eg: International Space Station.

Shakti is India's ASAT test which destroyed satellite and exected debxie.

Conceans

1) Increased de bris

2) Effect on Putuse satellite launches

3) Threats to space missions

4) Cost of tracking

5) Kesslex Syndrome of increased

collisions.

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collissions

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As Shakti test was pexformed at a very low altitude, space debis was minimized.

An international collaboration is needed to protect the global commons like space Por

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Q.19) Chief of Defence Stuff (CDS) to the stepping stone for to services meegration in India. In this context, discuss the significance of CIVS and ordines of exacting es faced in its appointment. Also, discussifirmer reforms required to make bediant (15 Marys, 25) Wester military a modern force.

CDS is a single point advisor to the Prime Princetox, who and also acts as the head of 3 sexuices - hang, hang, bistores

Significance

and planing

challenges in appointment

.) Not desided if CDS

or 5 - Stax grexal

2) Tuxt wax From Smaller Services

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Visit as : www.haraman.com Estable : ettableatt at four mannan, accaden 3) Lack of proper integration oursoutly.

Fuxthex Reforms

Naxiona committees like Kaxgil
Review Committee, Group of Ministexs,
and It. Gen. Shekatkax Committee
have made xecommendations.

- 1) Improving teeth-to-tail xatio
- 2) Inexacing capital expenditure From 6% to 15%
- 1) Decxeasing non semmesative, activities like axmy Paxms.
- 4) Tri sexvice integration theatre

commands

5) Indigenous defence production Given the threat Prom China, Pakistan and a

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competitive Indo Pacific, xapid sectoreturing of military is needed

Feedback (For OFFICE use onl	Y	Į
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Structure	Content	
Question Interpretation	Total:	

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Q.20) In an era when cybersecurity is increasingly becoming a grave threat to nations, 'Digital India' cannot sustain without a Digitally Secure India. Discuss Also, critically evaluate the interventions by the Government of India in creating a digitally secure India.

(15 Marks, 250 Words)

World wide, cylox allock have

He decade according to Moxton

Thus cybox security is exucial.

Digitally Secure India is needed

1) To catch eximinal threats gg: CERT-In

2) Reduce GIDA loss

3) Ensure disastex xesilliance

4) Defend from cybex waxfaxe

Q.

Govt. Interventions

Cybex Securicy Coosdinates
in home ministry

-National Cybex Policy.

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Success of govt. i) Strict policy in place 2) Education of public 3) Police capability development Issues 1) Bevolence of Cybex cxime eg: Rancomusaxe 2) Child safety. eg: Blue whale go 3) Financial loss gg: Phishing Thexe is hence a need Pox a sepexate Cybex kus and privacy laws as pex

Sxikxishna Committee

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