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Test Code: 21100



FIAS - 2019 - GS 3H/7G/11E/13D

Forum AS

ACADEMY

Mame Of Candidate Shubhank Mishra Email Id. Mobile No. Roll No. |910047045| Date: |10/09/2019|

Time Allowed: Three Hours

Maximum Marks: 250

	INDEX	TABLE	INST	RUCTION		
Q. No. 1 2	Max. Marks	Marks Obtained	1. Do furnish the appropr (viz. Name, Email, Roll N	iate details in the answer sheet o, Mobile).		
3			2. There are TWENTY que	estions printed in ENGLISH.		
5			3. All questions are compu	ilsory.		
6 7 8			4. The number of marks indicated against it.	carried by a question/part is		
9		-		n in the medium authorized in		
11			the admission Certificate, which must be stated clearly on the cover of this Question-Cum-Answer (QCA)			
13			Booklet in the space provided.			
15			6. Word limit in questions, if specified, should be adhered to.			
16 17			1			
18				of the page left blank in the ooklet must be clearly Struck		
19			off.	bokiet must be clearly struck		
Total N	Marks:					
Remar	·ks:		Start Time 2:00	End Time 5:00		
			Mode Of Examination :	Online Offline		
			ECN CODE:	Evaluation Date:		

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Parameters	Excellent	Very Good	Good	Average	Poor	Very Pool
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ADDITIONAL COMMENTS

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Q-1) "No major country has managed to reduce poverty or sustain economic growth without a robust manufacturing sector." In this context, discuss the need for a new industrial policy in India.

(10 Marks, 150 Words)

Countries like China, Japan etc. Herived because of reduct manufacturing sectors It reduces poverty as:

- Manufactoring rector generates greater

 number of quality jobs than agriculture
- 2) It doesn't require highly trained workers unlike service rector. Hence, a common citizen can get job easily after due training.

ond high employment generation.

Need for mew industrial policy

- 1) Share of industry in GDP and employment has rumained stagnant for long time
- 3 Poor performance of Make in India

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requires relook of policy

- Disguised unemployed agricultural workforce need to be shifted to industry to avoid middle income trap by boosting productivity
- Demographic dividend can be realized only when workforce is shilled industries have potential for it. Eg. Textile industry
- (3) Fourth Industrial revolution requires disruptive changes in rubbly chains
- Moreover, increasing energy demand
 g focus on environment require industry
 to adopt nutournable practises.

 Hence, new industrial policy is need of
 the hour. It is also exential to book
 growth to realize \$5 trillion economy by 2025.

Structure Content

Question Interpretation Total:

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Q.2) What is Land Degradation Neutrality? In what ways it can act as a centrepiece in achieving the goals of Sustainable Development Goal by India. Discuss.

(10 Marks, 150 Words)

UNCCD defines Lond degradation
Neutrality (LDN) as the ability to
reverse the land degradation and
If possible to merease the productive
reapabilities of land.

(Bg) Kubuki model of Mongelia to rieclaim deserted land through LDN

LDN to achieve SDG-

- 1) Productive land will improve agricultural productivity thus ensuring food security and zero hunger (SDG1-2)
 - 3 Moreover, farmers' income will be increased this reducing poverty (SDG-1)
- 3 Further, healthy state of land will help ground water recharge

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life on land and water will be protected (SDG 13.14)

- 9 Dust storms due to glerented land often cause pollution as seen in Delhi, thus Impacting health. LDN will ensure good fealth (SDG-3)
- moreover, industries can be set up on non degradaded land ensuring healthy infantructure (SDG-9)
- (6) LDN will also help local communities

 like tribals who debend on forets

 for livelihood Incluive growth

 will be onsured. (SDG-10)

 Recent COPIU of UNCCD in India

 can be used to share best LDN practices

 thus, onsuring untainable development

Feedback (For OFFICE use only)

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Q.3) "Quality of India's human capital is the major impediment in reaping the benefits of demographic dividend." Examine. (10 Marks, 150 Words) Recent world bank report showed dremal status of India's human capital (0.44). Moreover, UNDP's HDT also highlights the similar condition. Human capital impeding demographic dividend foor nutrition standards makes the (1) workforce les productive lack of a dequate education in excelling in high In ediment technology jobs Poor somilation gives girse to the (3)diseased workforce which causes demographie des arter instead alévidand madequale skills due to lack of 4 vocational education runders many educated youth uncomployed

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(5) Moreover, lack of reskilling and reskilling will not help m, taking the advantage of -4th industrial revolution.

Moreover, poor governance, lack of investment in social infactive duralike hospitals etc. and jobless growth also impede in realing the benefits.

India's demographing atto will beak in 2041 (59% working age population) as per Economic Survey 2010-19. Hence, comprehensive policy framework whould be evolved to take advantage of this small windows and make making Golden Bird' again

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Q.4) "Despite bringing in new crops, technologies and markets for farmers, contract farming excludes the smallholder farmers." Analyse. (10 Marks, 150 Words)

Contrad farming is a contract between farmers and a provide company which provides new and modern seeds, crops, technologies, credit and anured market to farmers in lieu of fixed quality produce.

(Bg.) PEPSICO growing potatoes

Though contract farming is beneficial as it

- 1) Ensures economy of scales for farmers
- Fixed in come thus saving farmers from vagaries of market
- (3) Quality product to company

 Contract farming often excludes

 mull helder farment

small helder farmers who contitute about 86%. of farmers (Agriculture

Census 2015-16)

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	Forum AS
	Reasons
	1) Difficult to negotiate with many
	farmers.
	2 Limited investment oftrom for mall farmers as they final
	difficult to get - MSI)
	3 Reliance on objete technology
	(9) Low literary of small farmers
	hence are unable to understand. the contract
	5 further, difference in standards of
	many mall farmers
	11
	- l'ons (flos) should be promoted la
n 20	bring bonefiles of contract farming to all.
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Q.5) "Plant Variety Protection law regulating intellectual property rights in seeds is considered indispensable for seed sovereignty and thus food sovereignty." Examine.

(10 Marks, 150 Words)

Recently PEPSICO filed complaint against Gurmers alleging them for growing patented FC-5 variety of potato illegally

provides IPR protection to companies as well as farmers.

Indispondable for seed sovereign to as.

- 1) Patent of companies are protected
- 2) However, farmers are allowed to grow crops very there ruds for non-commercial purpose
- Moreover, farmers can sell mon-branded seeds which are patented.

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

(10 Marks, 150 Words)

produced in economy whould return to the production yell after due consumption it leads to minimization of worker production.

Reycle Consumption

Circular economy

D-Efficient utilization of works material

Reduces the input cost as scrap material re-enters production cycle

3) Reduced cost to consumer for and product

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_	moreoving untownability	
	y Prevents would accumulation in	
	3 Reduces exploitation of natural resources	
	6 Promotes frugal culture's in	
	Tels by India	,
	DE Extended producer responsibilité for producer under e-warte mornagement	
	2) Promoting recycling in accordance with sendai work work	
	(3) Incentivising industry to reprocess waste to generale energy	
- K	Thus circular economy is enchal to realize surfainable consumption & production (SDG-12)	
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Q.7) Coalition for Disaster Resilient Infrastructure (CDRI) could fill a real gap at a time when climate change-induced foods cyclones and fires have multiplied in destructive force. Analyse.

India recently pledged a handsome amount to Astan CDRI conference held in India.

Disaster CDAI is helpful in filling a real gap as:

- Technologics to develop disorder resilient infrantructure com be shared.
 - (Eg:) Japanis cyclone shelters
- Funding to prevent loss due to floods by making climate adaptive houses
- 3) Effects of fires due to increased temperature can be avoided by making office and residential place fire proof

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- nderstanding risks and developing early warring justems.
- Exercises.

Disarters reverse developmental gains. Hence, Building Back Better?
Ustry Sendai's rpirit should also be implemented.

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Q.8) Discuss the contribution of Vikram Sarabhai in the advancement of space technology in India. Also, enumerate challenges faced by Indian Space Research Organisation in the commercialisation of its Space programme.

(10 Marks, 150 Words)

Vikram Sanabhai is soud to be father of India's space Isogramme.

Contribution

- 1) founder of 15'RO m 1960's
- 2) Provided a layout of development driven malais space programme
- 3 was instrumental im loumen of India's first ratellite Anyabhatta in 1970s
- 9) Helped entablished briologis of stocket launch centre at
- (3) Great leader and source of mypiration even to day

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Challenges in commercialisation

- 1) Over occopied with developmental mission of India
- 2 Lack of dedicated agency for commercial, operation
- 3) Overbordened stoff

Hence, recent budget armouncement to extrablish National Space
India Limited (NSIL) is good
whele to commercialise yaice
activities.

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

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rorum	anything in this Area)
Q.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)	a)
Focial media has been useful!	
in providing information, increasing	-
interpersonal connect rete	
Challenges	ent -
O Cyber bullying of children and	
online haranment of evomon	,
2 Radicalisation by tenomits	
Fg. Kerala youth joining 1815 due	
to online radiculisation	<u>\$</u>
3) Stread of fake news and hate	ĺ
news leading to lynching.	ţ.
(Eg) whatsapp induced lynching	
4 Increasing banking fraud vering	X. Y
socral medra	
(5) Addretton and reduction in social	
bonds	

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,		Don't Write
	6) Issuer of doctor security and privacy.	
	doute to influence electron in USA	-
	Additional measure	
	1) Comprehensive data security and	7)
	sommittee recommendation	
	3 Promote data localisation	
	3) Regulate social medra companies to provide information about	
	ant national activities	
	4) Awareness among user to rease	
	malacions content following community	7
	Further kyc norms, should also be	
	explored to ensure security at there platform	
	Feedback (For OFFICE use only)	
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Q.11) What is gene-editing technology? Also, enumerate the ethical and biological concerns associated with the gene editing in humans. (15 Marks, 250 Words)

Gene editing technology makes changes at genome level to prevent occurance of new disease on to cure the existing diseases among other functions.

Bg. CRISPR-Cas to freat com con in chira

Estical concerns 7

- 1 Treating human as means than ends
- (3) Challenging the power of nature ky creating artificial human beings
 - 3) May morease bio-divide as only such can afford these technology

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(9) May lead to <u>bio-terrorism</u>

key execting an army of

resilient humans

Biological concerny

- May lead to incertain brological consequences
- 2) May aggravate disease and even compromise life if goes wrong
- 3) Practises of selective breeding
 - 4) Cloned human may have whomat life time. Moreover, they may be susceptible to

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various diseases.

Hence, adequate laws should be made to regulate its use in curing diseases largely

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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)

importante of private investment in justed ning the virtuous yell of growth. Investment is key driver as it:

- 1) Drives demand by generating employment thus increasing the purchasing power of people
- @ Creates capacity by developing basic capital goods industry and investing in technology
- 3 Increases labour productivity by skilling them and adopting better management practices
- (4) Introduces now technology by investing in research and development
- (3) Allows creative destruction by investing in recycling plants
 - Eq:) Plastic waste management, Waste to energy plants
- 6 Generales jobs as economic activity gets
 booghed i

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India witnessed all these things during 2002-2000 when investment to approals beaked at 36% Today it has declined to about 26%. factors inhibiting private investment Domestic factors Rising NPAs at banks (About 10.17. anders in 2018:) Slowdown in economy as 2 low growth rate Stringent labour laws 3 Difficulty in getting land, environmen (4) clearances out state level

3 Poor Logistics infrastructure

@ Weak contrad enforcement regime.

Global factors

7 Reduction in global clemend which impacts export potential

(8) Compelition with neighbouring countries for

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allracting investment					
Measures					
1) Solving twin balance sheet syndrome through					
laws like Insolveny & Bankruptcy (ode					
2 Better bank governance to reduce NPAs					
3) Tingde window cleanance to improve					
ease of cloing business					
(4) Streamline labour codes (4) 4 labour eodes					
(5) Improve logistics through programmes					
like Bharatmala, mland waterways etc.					
6 Establish international arbitration certres:					
for quek dispule resolution					
@ Easing FDI norms for inviting foreign					
a trive a mostly of a most and a particular of the first					
India needs invertment of Rs 100 trillion in next 5 years (Budget 2019). Hence,					
brivate " weeks 1 2019). Hence,					
private invertment chould be increased to achieve the goal of \$5 trillion economy by 202425					
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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)

Reconfly FAME It whome was

Significance

- O Promote adoption of <u>hybrid</u> and e-vehicles
 - 3 Saving of into money as imported oil, will not be required for it
 - 3 Environmental benefits as less
 bellutron
 - (9) Moving towards new technology in era of 4m inclustral revolution

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features of FAMEII

- 1) Incentive to industry to promote hybrid vehicle production
- (2) Provisions to develop to changing infrastructure
- (3) focus on Leveloping battery technology
- 4) Incentive to user to buy
 there products

Impact of FAMBII

1) Limited orifiact as where of c-vehicles is while about 14.

in total vehicles

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

(15 Marks, 250 Words)

Revival of Inland waterways ushor commomic development as:

- 1) Lowering the cost of logistics
- 2) Better connectivity of hinterland with ports
- 3 Cleaner mode of tramportation.

factors hamporing progress

Geographical factors

- 1) Uneven terrain of river book, especially in South holes
- Non perennial rivers which usually get water in monsoon time
- 3 frequent floods in Northern rivers
- (4) Silting of rivers reducing the

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7.	anything in this Area)	
£	conomic factors	
(5)	Huge Initial invertment required	
©	frequent desir desilting is costly affair	,
Ø	Governance factors	į.
7	Interstate co-ordination is difficult	
8	Issues in land acquisition for developing	
	inland port was sportation beauti	
(3)	Moreover, environmental issues like	1
	Impact on biodiversity ster need to be	e ²
	token I cane of it is not been been in	1
14	nitiatives by government	
0	National Internal Waterways project	
	with the help of World Bank was	
	launched in 2016	
3	Development of National Waterway -1	
	connecting Hugli to Vanamani.	
3	Multimodal legistre hub at Sahib gary	

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was inaugarated recently

- (9) Inviting private sector to partner in developing waterways
- (5) Incontivising Mede governments to expedite the process of clearances

Inland waterways have potential to bring development to hinterland regions of country. With adequate ecological safeguards, projects should be expedited to bring inclusive growth 8 development (SDG 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. Suggest measures that can be taken to make EIA an effective tool.

(15 Marks, 250 Words)

EIA means evaluating the impact of any project concerned on environment

Reasons for limited success

- 1) Poor capacity of agencies conducting EIA
- 3 Sereening, scoping one not done adequately
- 3 Pour people partieipation in public servening and resulting

Meanures

Integrate EIA with Social Infact Asserment

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- @ Clearly define procedures
- Time bound an enment to ovored delays
- 9 Develop BIA expens

Moreover semistre community and corporates towards need of adopting environment semistre technologies.

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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)

In Indea, about 20,000 tormes of plantic is generated everyday. However, only about 65% is calleted and processed as per Ministry of Environment.

Impact of plantic pulletron

- B Environmental
- 1) Soil and land degradation due to alumping of plantic waste on land.
 - Eg, Gazhipur land fill in Delhi
- 2 Water pollution as microplantics runch to waterbookies thus polluting if
- 3 Air pollution due to burning of plantic
- (y) Impact animals as planters are eaten by cows, dogs and even fishes in sea.

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Economic & Existential

- Destre enters into foodchaim when consumed by animals leading to bloaccumulation and biomagnification
- @ Zoil degradation impacts agricultural productivity and food security
- 2 Several diseases happen due to consumption of food packed to plantice bays

 Hence, Plantic wante management rules

2016 were introduced which provide

Box:-

- 1) Extended producer renformability for
 plates produces
- 3 Established Buy back mechanism through collection control
- 3) Responsibility of urban bocal bodies to collect the plantic wante

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- 1) Incentive to user to segregate
- Moreover, 2010 amendment provides
 for proving out all plants with
 thickness less than 50 microns within

6 months

way forward

- 1) Technology development for converting plantic world into energy
- 2) Awareness compaign to reduce the
- 3 2m lax on indulry to reduce the production

plantices may reem kenefrered in whost term. But they one hairenful in long term. Alternate solutions like Juke bage whould be encouraged too.

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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 (15 Marks, 250 Words)

Post liberalisation in 1990s, India's growth rate has been among top few nations of the world. However, inequalities also increased as 1% of Indians have about 58% of country's wealth. (Oxform report 2010)

Low pay remains obstacle as:

- 1) Vulnerable section like contract workers do not come out of poverty
- 3 Human capital development could not habben due to low disposable in come wage mequality also contribute as:
- 1) Women could not improve their conditions due to discrimination in wages
- 2) Purchasing power of large section remains low thus impeding include growth

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Moreover, due to low wages,
productivity of workers remain low.

They could mist move to high skulljobs, less income leads to poor
fealth and education to their
children, thus juntaining the vierous

yele of monimilarize growth

Way forward for minimum wage policy

Radion alisation

- O fixing minimum vage based on objective coilerta for a region.
 - aging Shill level required and so local demand can be the factors
- Floor level wage to adjust according to inflation

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Question Interpretation

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 debtis with respect to India's mission Shakti.

(15 Marks, 250 Words)

Recently, USA announced creating special wing to look into the prospects of space was. It can lead to bandwagon effect resulting into arms race in space space.

Space was derlaying instringic trust

- 1) Lack of brust would moon poor international co-ordination in peaceful space programmes like maintaining International space station
- Programs like remote sensing to measure climate change will be infacted as it requires co-operation from multiple stateholders

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3 International communication yelom	7
can be jeo pardized	
Weather forecaste for predicting	
rainfall and natural disarter	- 2 T
prediction may also take a back-	
5 Moreover, preventing earth from horm-	
ful austerorals through anti-satellite	100
weapons will also bee seen through	8
mistrust.	
India's mission should: where India	
tested antisablite missile by destroying its own satellite in low	
earth orbit created concerns like:	
	l
1) generation of space debris which can get hit any other satellite	
a la trace Para delaca	
(2) If takes sime for more debits	

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Q.19) Chief of Defence Staff (CDS) is the stepping stone for tri-services integration in India. In this context, discuss the significance of CDS and outlines the challenges faced in its appointment. Also, discuss further reforms required to make Indian military a modern force.

(15 Marks, 250 Words)

Reconfly Indran prime minister armounted creation of CDS for ton-services integration on recommended by Kangil review committee.

Eignificance of CDS

- Detween government and armed forces
 thus ensuring better communication
- Exprendice in functioning of animal forces and was shaces are increasingly becoming integrated
- Avoid dublication of efforts as some resources can be shared by all bores
- (y) Compréhensive défence folige can le

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Challenges in appointing eDS

- 1) Power of respective chiefs of wimed forces may be compromised as CDS will be point of contact for Jovernment now
- Work culture meeds to be changed in ourmed forces
- Bureaucratic intervention may increase in armed forces which may cause frotion between the
- (A) CDS may not develop expertise
 to quide government with refect
 to special needs of all three
 why.

Hence, CDS whould be appointed only after proper consultation.

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Further reforms

- 1) Défence indigénisation to ruduce
- 2) Incentivise private sector through policies like Offiel Clause where a share of imported Hems much be manufactured locally
- 3) Improve research capabilities of DRDO by reforming yourmance
- Technology adoption like Artificial Intelligence in force. Chamdrashelthan tout force)
- (3) Using modern equipments like night vivion comera etc. for border monagement Moreover, preparation is required for possible you wan I space war as engaled by Nareth Chandra committee.

Feedback (For OFFICE use only)

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Structure		:
o exterion	Total:	
Question Interpretation		

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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)

India faced the largest number of small and medium cyber attacks in recent times leading to decline in it's ranking in ITU's global Cyber security Index.

Today, when Digital India programme is envisaging to create digital ecocystem in all walks of life. "Digitally seure India becomes equally important as:

- About 70 crore Indians would be using internet by 2020. Most of them are digitally illiterate, hence would need protection
- 2) Weak capacity of law inforcement agencyes agencies. Eg: Police

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3 Increasing banking branch online may create sense of fear among	J
people, thus impeding online payment	
Data security and privacy are also	()
the concerns.	
Interventions by government	
Positive man political de la	* / 1
1) NCIIPC to protect critical information	-3
infrantructure like bomking etc.	ď.
3 Cyber-Fin and Cyber-In for emergency	
response to upper attact. 3 146 for better co-ordination among	
vanious agencies.	1
(4) Cyber Eccurity Policy 2013 at national	i s leci
(s) Amendment to ITAct -2000 to	
cover latest threats	
6 <u>CCTNS</u> for local police.	
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Issues (1) Most of digital equipments are imported thus, compromising valety.	Oon't Wr Tything i	
Deak capacity at state level officers (a) Lack of dedicated cyber security (experts		
Absence of comprehensive data protection laws. Hence, government must address there challenges. Moreover. It should join international budged convention to these the best cy ker security prached Feedback (For OFFICE use only) Structure Question Interpretation Content Question Interpretation Total: Visit us: www.forumias.com Email: student@forumias.academy		