Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

(For filling by Examiners only)

Evaluator Code :

Q.No	Pg No.	Maximum Marks	Marks	Total
1	1			
2	3			
3	5			
4	7			
5	9			
6	11			
7	13			
8	15			
9	17			
10	19			
11	21			
12	24			
13	27			
14	30			
15	33			
16	36			
17	39			
18	42			
19	45			
20	48			
Grand Total				

Signature

MACRO COMMENTS

(Please do not write anything except the question number in this space) कृपया इस स्थान में प्रश्न संख्या के अतिरिक्त कुछ न लिखें।

Next IAS ID: MT23FLTON014, TC011, 22-09-2023 04:15 PM

परीक्षार्थी को इस स्थान में नहीं लिखना चाहिए Candidates must not write on this margin

1- Accounting of different price Index is necessary to examine inflation and framing strategy to tackle its impact for this India has two major Index CPI and WPI.

Differences

CPI	WPI
i) It accounts for inflation at retail level	It accounts at wholesale level inflation
ii) It accomodates goods and services	It accomodates only goods
iii) More vulnerable to external factor and volatile	Comparitively stable and immune
iv) Better identification of food inflation	Better identify supply side disruption
v) Helps in deciding wages	helps in understanding volume of trade.

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UPSC

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अभ्यर्थियों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

Better measure by CPI

i) As Indian economy accounts over 55% value addition by service sector, thus inculcating it, is necessary in inflation index

ii) It helps to measure changes more holistically due to greater weightage to food and fuel and accounts geometric mean method

iii) It accomodates data at retail level whereby over 80% of transaction occurs and thus more inclusive

iv) CPI accounts for variation across rural and urban economy.

Thus CPI is more better, but still WPI is important to study inflation at large trade level.

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उम्मीदवार को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

2- As per IMF report, Indian economy will grow by 6% ; while Periodic labour force survey highlights that unemployment is at 4.1% which might increase further due Covid -19.

Major cause of high unemployment

i) The dismal female labour force participation at 27% due to patriarchial rigidity.

ii) McKenzie reported highlighted that with current curriculum only 30% workforce is employable.

iii) The poor social development due to malnutrition, education leading to low acceptance

iv) The problem of disguised unemployment in agriculture sector due to

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Please do not write anything except the question number in this space. कृपया इस स्थान पर प्रश्न संख्या के अतिरिक्त कुछ न लिखें।

अभ्यर्थियों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

fragmented landholding as over 80% farmers have less than 2 hectare land

Reforms needed

i) Amartya Sen stated need for capacity building by social development

ii) The resolving agrarian distress by revamping local industries under National rural livelihood mission

iii) Skilling to improve prospect under PM Kaushal Vikas Yojana 4.0

iv) The formalization of economy by support to MSME like RAMP, Championsportal

Thus resolving jobless growth is major need for India's goal of top 3 global economy

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(Please do not write anything except the question number in this space) कृपया इस स्थान में प्रश्न संख्या के अतिरिक्त कुछ न लिखें।

अभ्यर्थियों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

3- The urea fertilizer subsidy suffers from excessive government debt burden and changing soil dynamics due overuse to 7:3:1 (optimum 4:2:1).

Issue related to urea :-

i) Canalization of imports leading to extensive dependency on few supplier

ii) Bilateral treaties for urea supply prevents expanding availability

iii) The failure of e-POS system to prevent excessive urea procurement

iv) The subsidy led problem to producer with monopolization tendency

Benefit of Nutrient based scheme

i) The improved nature of subsidy

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अभ्यर्थियों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

and consumption of MOP and DAP.

ii) The focus on nutrient driven subsidy gives more freedom to manufacturing units

iii) The reducal of fiscal burden and trivialization of pricing giving rights to price to private entity

Way forward

i) Implementation Of PMPRANAM

ii) Soil health cards be used to appropriately utilize fertilizer by farmers

iii) One nation One fertilizer to bring uniformity and prevent distortion

iv) Finding futuristic solution like nano urea to resolve misuse of fertilizer.

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उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

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उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

4- India being amongst the top populous countries, with agrarian economic outlook as 45% workforce engaged still vulnerable to food security.

Challenges :-

Domestic factor

- Food wastage due improper storage and grain management
- Vulnerability of climate dependent due to monsoon
- Volatility in price due to MSP regime
- Distortion in cropping causing hidden hunger.

Global factors

i) The disruption of supply of edible oils due to crop failure in Indonesia

ii) The susceptibility due Ukraine-Russia War in supply chain disruption

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Next IAS ID: MT33FLTON014, TC011, 12-09-2023 04:15 PM

iii) The impact on supply of urea fertilizer due to disruption in production across UAE due to covid-19.

iv) The global factors like climate change causing disruption in agriculture productivity.

Way forward

i) Improving resilience by National Mission on sustainable agriculture

ii) Promoting Atmanirbhar Bharat like National Mission on edible oils

iii) Resolving internal logistic by means like proper warehouse and Kisan rail

iv) Crop diversification like Millet promotion to resolve hidden hunger

Thus ensuring food security for nation

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Next IAS ID: MT23ELTON014, TC012, 12-09-2023 04:15 PM

उम्मीदवारों को इस हाशिए पर नहीं लिखना चाहिए Candidates must not write on this margin

5- In the backdrop of success launch of Chandrayaan-3, India joined Artemis Accord to further accentuate its space ambition.

Benefits of it :-

i) It accounts for collaborative efforts to study space and moon with technological aid

ii) It provides acceleration for Indian space to carry out further mission with support of International organizat

iii) It aims for collaborative research based on evidences collected by different space missions

iv) It aims for developing new technology and capacity to explore still under

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उम्मीदवारों द्वारा इस हाशिए को नहीं लिखना चाहिए Candidates must not write on the margin

explored region in space and moon

Challenges :-

I) It fails to account for specific partnership across project or funding

II) It is criticized to operate outside multi-lateral key institutes like UN

III) The geo-political implication in relations with Russia and China who found it as US centric

IV) The lack of clarity in organization to resolve issue like Kessler syndrome, space tourism etc

Thus India must look forward to utilize it as means to expand its possibility in developing potential in space sector.

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(Please do not write anything except the question number in this space) कृपया इस स्थान में प्रश्न संख्या के अतिरिक्त कुछ न लिखें।

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उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

6- Carbon cycle is crucial phenomena in distributing carbon across, so as to account for effective agriculture and growth of organic compounds

Role of decomposition of organic matter

i) Every organic matter comprises of carbon present.

ii) As it decomposes, it releases carbon that reacts to form carbon di-oxide

iii) This CO_2 is utilize by plants in photosynthesis to prepare food.

iv) Organic matter helps in providing organic compound to underground activities for roots growth.

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Next IAS ID: MT29FLTON014, TC011, 12-09-2023 04:15 PM

(Please do not write anything except the question number in this space)
कृपया इस स्थान में प्रश्न संख्या के अतिरिक्त कुछ न लिखें।

उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए
Candidates must not write on this margin

Key factors that influence

i) The nature of soil that measures the decomposition rate based on temperature and pressure.

ii) The presence of moisture to advocate timely decomposition

iii) Providing stable condition to prevent erosion of organic matter

iv) The nature of plantation and cropping with different sort root system and absorption mechanism

v) The climate condition operating with nature of relief to impact decomposition

Thus it is necessary to form humus that enhance productivity.

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Next IAS ID: MT26FLTON014, TC014, 12-09-2023 04:15 PM

7- In the COP-26, Glassgow, the resurface of idea of the Carbon Capture, Utilization and storag (CCUS) as means to reduce Carbon emission intensity and step for carbon neutrality.

Concept

i) The carbon capturing occurs through sequestration process by either natural means (plants) or artificial like Lohafex mission.

ii) The carbon capture is then either utilize by linkage through Greenhouse farming or it in fracturing process

iii) Otherwise it is stored in reservoir creating underground to prevent its heating effect on atmosphere.

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Next IAS ID: MT28ELTON014, TC011, 12-09-2023 04:15 PM

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उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए, Candidates must not write on this margin

Progress used for it

i) COP-27 at Egypt stated the use of koronivia agriculture as way to use CCUS technique.

ii) Advanced mechanism like Denmark by artificial carbon capture across marine body by reduction process and then cap storage in form of stable carbon compounds.

iii) The Miyawaki method used by Japan by urban forestry to capture a excessive CO_2 in urban area

iv) The artificial capture by USA through organic compound formation and using in agriculture like polyhouse practices.

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(Please do not write anything except the question number in this space) कृपया इस स्थान में प्रश्न संख्या के अतिरिक्त कुछ न लिखें।

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उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

8- In recent time, the raising incident of urban fire like in New Delhi at Rajendra Nagar, envisages on adequate focus to mitigate such disaster.

Causes :-

i) Poor building design as it was found that only 25% of commercial building had adequate fire alarm system and evacuation facility

ii) The lack of uniform building code due multiplicity of codes like GRIHA, BIS standards etc.

iii) The lack of monitoring agencies and adequate fire fighting capacity due to lack of funds and functionaries.

iv) The costly affair of fire extinguisher with lack of timely replacement.

Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

v) With overcrowding across few areas like coaching culture across Kota leads to hazard converting to disaster due high risk potential

Way forward

i) The need for comprehensive code with adequate regulatory body to monitor its implementation

ii) As per Sendai framework, taking to retrofitting measures and adequate capacity building to control fire especially at overcrowded region

iii) Providing sufficient support to fire fighting units for mitigating fire problem.

Thus creating adequate mechanism under NDMA guidelines be taken up.

Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

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उम्मीदवारों को इस सीमा में नहीं लिखना चाहिए. Candidates must not write on this margin

9- India in North East region is challenged by porous borders due to rugged topography and natural constraints like shifting river course.

Impact to Indian security

i) The ethnic conflict led to Naga insurgent groups get easy passage to Myanmar due open borders

ii) The lack of border collaboration and combined forces across Myanmar promote trafickking from Golden triangle

iii) The prevalence of organised crime group in nexus with Naga insurgent groups provide support through arms and counterfiet currency

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Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

Indo-Bangladesh border

I) The issue of illegal migration largely unaccounted by porous borders.

II) The cattle trafficking is largely prevalent across the region

III) The problem of shifting river courses and floodplains due to flooding

Steps taken:-

I) With Bangladesh cooperating for fencing of border with integrated check post

II) Using technology across border under CIBMS initiative.

III) Strategic forces like Assam rifles posted in Myanmar border region with AFSPA provision

The need lies to expand bilateral coordinati for effective border management

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Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

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उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

10- Money laundering refers to process of reshaping the illicitly claimed resources in a manner to give it a legitimate identity

Steps :- Placement → layering → Integration

Mains challenged faced :-

i) The lack of capacity to investigate across emerging means like dark Web or cryptocurrency methodology

ii) The well established Hawala network that operate at global level, whose jurisdiction problem to agencies.

iii) The challenge in collecting evidences due to large network with multiple layering through vivid means like animal trafickking etc.

Next IAS ID: MT23ELTON014, TC011, 12-09-2023 04:15 PM

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iv) Lack of inter-departmental coordination to adequately monitor such operation across various networks.

Way forward

i) The judicious implementation of proposed amendments to act like politically exposed person, online monitoring mechanism

ii) Strengthening KYC norms and efforts under Basel Convention

iii) Taking up international collaboration with support of FATF

iv) Creating dedicated task force to study emerging forms and tackle its cases.

Thus resolving such menace is necessary for fiscal sovereignty and public faith.

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Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

11- Indian economy is faced by issue of informalization that leads to just 2% of population in tax base.

Issue of low tax buoyancy :-

I) The increasing debt to GDP ratio, as low tax capacity forced for external borrowing. Eg:- Indian fiscal deficit is 6.1%

II) The higher debt reduces debt sustainability which can cause crowding out of private sector

III) ASSOCHAM stated it as major cause to reduced compare to potential investment in capital expenditure

IV) The increasing fiscal deficit due low tax buoyancy causes stress on existing tax payers due increased compliance cost.

Next IAS ID: MT23ELTON014, TC011, 12-09-2023 04:15 PM

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उम्मीदवारों इस हाशिए नहीं लिखना चाहिए Candidate must not write on the margin

Increasing direct tax rate

1- Benefit

i) In short term, increase tax collection

ii) The reducal of deficit for near time period

iii) The easier way to improve fiscal health compare to other means

However, on other hand :-

i) It creates trust deficit and demotivates tax payers, forcing them for illicit acts

ii) Increasing corporate tax as per OECD is major factor of crowding out of foreign investment

iii) Deloitte Group shonon correlation with fall of investment culture due to high taxation burden.

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Next IAS ID: MT23PLTON014, TC011, 22-09-2023 04:15 PM

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उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

Steps to revamp :-

I) Nandan Nilekani suggested for increasing tax base, for which the need to formalization of economy.

II) Raghuram Rajan observed need to reduce compliance shortcomings that make it more conducive to evade taxation

III) UK Sinha Committee highlighted that MSME taxation system needs to promote more easy to fill norms

IV) The need to spread awareness with adequate monitoring mechanism to dis-incentivize tax evasion

Thus improving tax to GDP ratio is crucial for national fiscal health.

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उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

12- As per recent IMF Global economic outlook, India accounts 3rd largest startup culture, with 2nd largest in annual growth in numbers.

Driving engine of economy

i) Startups bring attitudinal change from job-seeking to job-creating and thus domino effect on resolving unemployment crisis

ii) It helps to serve in vivid sector and thus expanding scope of economy

iii) It brings in more investment across capital formation

iv) The culture of R&D is promoted with seeking benefit of Industrial Revolution 4.0

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उम्मीदवारों को इस स्तंभ में नहीं लिखना चाहिए Candidates must not write on this margin

Failed to realize potential

i) ASSOCHAM study found that over 40% of new startup find merger with big companies conducive, showcasing their short sightedness

ii) The challenge of adequate mentorship and forecasting of adversary, causing early collapse

iii) The issue of innovation and culture of creative progress, leading to early maturity

iv) The financial constraint, due to lack of well developed system of investment and high risk associated

v) Indian startup lacks long term vision leading to susceptibility for sustainance.

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Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

Steps to be taken

I) To improve profitability, the need lies in appropriate mentoring and fiscal support to tackle adversity

II) Sanjeev Sanyal highlighted the need for having adequate state funds to support under Startup India programmes

III) The right mapping of startup by ease of doing business and prompting them for economies of scale

IV) The expansion of startup culture across tier 2, 3 cities also to resolve limited mushrooming region

Thus startup culture is key to India 5 trillion dollar ambition

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13- India being the second largest importer of edible oil and extreme vulnerability to import challenges, makes it conducive for self-reliance in the sector

Importance of National mission on Edible Oil

i) The widening of horizon of Indian agriculture by accomodating more lucrative edible oil cultivation

ii) Resolving the issue of dependence on export imports

iii) The new employment opportunity, as it targets across North East region and Andaman and Nicobar Islands

iv) Expanding gross value addition by agriculture sector by widening its

Please do not write anything except the question number in this space) कृपया इस स्थान में प्रश्न संख्या के अतिरिक्त कुछ न लिखें।

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उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए
Candidates must not write on this margin

potential towards new and lucrative sector

Environment concerns

i) The Greenpeace International stated need to clear vast forest areas in identified region, that reduces scope of carbon sequestration

ii) The international prudence of Indonesia of its repurcussion due to high land productivity fall

iii) The long gestation period with need of excessive virgation causes increas of water crisis

iv) The issue of increasing CO_2 formation as they have low carbon sequestration

v) The positive feedback mechanism to increase global warming

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Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

Way forward

1) The need lies in more comprehensive approach by accounting voice of other stakeholders

11) The current need lies in diversifying supply as 90% are coming from Indonesia

111) The stepwise approach can be accounted by implementing across certain identified areas.

1V) Need to accomodate equivalent forest restoration for neutrality in carbon emission

Thus sustainable approach be accounted for edible oil cultivation

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Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

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अभ्यर्थियों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

14- Dalwai Committee highlighted that for doubling farmers income, the need to diversify income by accounting livestock based mixed farming.

Role of livestock economy

i) The success prudence from milk deficit to surplus by White Revolution

ii) The widening of rural economy and lucrative returns like in AMUL and Mother dairy

iii) The export potential, with greater avenue of forward linkage with food processing sector like in Denmark

iv) The benefit of large market to capture with adequate return as National Board

Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

of dairying - shown that for each 1 litre of milk, the 50% profit goes to farmer.

Challenges

I) The issue of productivity due to poor fodder quality as it lacks adequate straw and multi-nutrients

II) lack of adequate artificial insemination facilites that improves livestock productivity

III) The regional disparity, due to lack of sufficient patronage by state government

IV) Vulnerability to climate change as UNEP shown 40% reduction in productivity due heat stress

V) The challenge of forward linkage due to lack of food processing industry.

Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

(Please do not write anything except the question number in this space) कृपया इस स्थान में प्रश्न संख्या के अतिरिक्त कुछ न लिखें।

उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

Way forward

i) Accounting for incentivizing mixed farming like in West Bengal whereby government support promotes it.

ii) Use of Self help groups like in Ajeevika whereby livestock activity created adequate women empowerment with improving production

iii) Taking into consideration, GOKUL mission for timely vaccination and fodder improvement

iv) National livestock fund can be created to account for R&D in bioengineering for cattle productivity improvement

Thus livestock holds key for revamping Annadatta status.

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Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

15- In recent times, Tokamark reactor has successfully conducted experiment and produced 300 MW of energy by nuclear fusion

Benefits of it :-

i) The zero carbon emission making it as an adequate means for greening of energy production

ii) Overcoming risk of radioactivity due to fission reaction

iii) Large energy potential, which can sustain energy needs to perpetuaty

iv) The safe manner as it accounts low chemical waste and forms stable inert gas as product.

Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

Scientific principle

I) It is based on law of conservation of energy by generating energy from chemical stability

$$2\,{}^{1}H_1 + 2\,{}^{1}H_1 \xrightarrow{\Delta} {}^{4}He_2 + \overrightarrow{e}$$

II) It leads to fusing two unstable atom into stable inert gas that releases lot of energy like in sun

Challenges

I) The storage of energy and controlling as it produces excessive quantum.

II) The costly affairs thereby promoting collaborative efforts

III) The risk of managing energy as it requires large batteries to store.

IV) The problem of managing the

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supply of energy, as it can leads to generation of enormous heat with high meltdown potential

v) Still lack of adequate R&D across adequate infrastructure for transmissio and managing energy.

Way forward

i) The need lies for furthering collaborativ efforts across Tokamak reactor

ii) The need to prioritize the other aspect like storage, monitoring and limiting the reactivity

iii) The adequate study about its possible impacts and promoting safety mechanism

Thus nuclear fusion definetly holds the card for future of generating energy.

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Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

16- Indian IPR regime as per WTO is still non-favourable for promoting research and development as it suffers from multiple shortcoming difficulties to administer :-

i) The lack of adequate information provided by orcata about the process undertaken

ii) The issue of balancing our traditional knowledge, which is used for IPR gains.

iii) The issue of evergreening and compulsory licensing due to its need for larger good

iv) The haphazard nature of IPR

Next IAS ID: MT23FLTCN014, TC011, 12-09-2023 04:15 PM

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उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

rules and lengthy procedures causing excessive delay and huge compliance cost

v) WTO highlighted lack of adequate mechanism in India to safeguard rights of IPR and hence vulnerable to illicit copying

vi) Administrators lack adequate capacity in scrutinizing and licensing process as it needs subject expertise

vii) The inappropriate grievance redressal mechanism to resolve concerns of patent holder

Way forward

i) World Bank highlighted need for revamping IPR norms based on modern guidelines by GATT framework

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ii) The need for adequate digital support and grievance redressal

iii) Accounting to best practices like USA in regards for procedure and time bound scrutiny

iv) Safeguarding our national traditional knowledge like Indian government did by portal formulation

v) The need to balance Cartegena and Nagoya protocol for benefit sharing in IPR policy to prevent any confusion.

Thus redemption of system based on modern needs be mounted.

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Next IAS ID: MT23FLTON014, TC014, 12-09-2023 04:15 PM

17- Wildlife Protection Act, 1972 is a premiere law in managing Indian wildlife and related aspect largely aligned to guidelines by CITES.

Effectiveness of recent amendment

i) The reshaping of Schedule for wildlife protection in alignment to CITES Appendix.

ii) The creation of management authority to widely monitor against illegal trade

iii) The scientific authority to carry out adequate research and development to protect our wildlife species

iv) Restricting any trade but increasing punishment and protection under Schedule I and schedule II.

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v) The focus on adequate rehabilitation and medical support to wildlife inhabiting in natural habitat.

Challenges :-

i) TRAFFIC highlighted that the tyranny lies that wildlife trade (illegal) grown to $270 billion

ii) The issue of adequate technological advancement and capacity in it

iii) The problem of alien invasive species is largely unaccounted

iv) The new laws fail to account on new raising challenges due to climate change and as means for money laundering

v) It fails to account for need to

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उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए
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monitor Indian zoos more scientifically

Way forward :-

i) The focus on 1-health approach be integrated across WPA, 1972 to protect wildlife and habitat

ii) Taking active efforts for technical intervention like M-STRIPS for surveillance

iii) The need lies to resolve man-animal conflict by accounting to Kasturirangan committee suggested of buffer zones.

iv) The need to expand horizon of law to emerging challenges like FATF shown on money laundering

Thus such amendment is highlighted rich approach of India in wildlife management.

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Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

18- In the backdrop of increasing urban flood like in Banglore, Gurgaon, Mumbai, the need lies in resolving its menace at priority.

Factors contributing :-

I) The lack of adequate drainage facility for water management.

II) The untimely maintainence of sewer causing stagnant water issue due to clogging problem.

III) The urban sprawl due to excessive gentrification and slum formation

IV) Concretization with low avenue for seepage of water underground.

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v) The increasing heat by urban island heat effect causing frequent and intense flooding.

Government efforts

i) The sponge city concept taken by Maharashtra to soak excess water.

ii) The use of rainwater harvesting and large storage facility taken across Telangana region.

iii) The adequate forecasting facilities provided as per NDMA guidelines

iv) The city planning based on adequate drainage taken up across urban areas like Noida

v) The redemption of natural lakes, wetlands taken up by Odisha government

Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

Way forward

i) The reduction of risk by accounting standard plan for mitigation based on Sendai framework

ii) Accounting from best drainage pattern and learning from history like Indus valley civilization

iii) The focus on timely cleaning and reconstruction of sewer lines.

iv) Learning from best prudence like Norway focussing on natural aquifers and limiting concrete use for rainwater drainage.

Thus resolving menace of urban floods is necessary to prevent its potential to become disaster.

(Please do not write anything except the question number in this space) कृपया इस स्थान में प्रश्न संख्या के अतिरिक्त कुछ न लिखें।

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19- In the backdrop of integration and merger witnessed between organized crime and terrorism, requires more holistic approach to tackle linkag

Potential of existing agencies

i) The empowering of enforcement Directorate under Prevention of money laundering act Section 50 to take arresting efforts on evidence

ii) The role of NIA in comprehensive monitoring and providing support to armed forces timely

iii) The intelligence wing with R&AW and IB to focus on identifying such linkage and plan covert operations to minimize risk.

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Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

iv) The inculcation of international efforts like Basel Convention, Vienna Convention to strengthen our defense and deterence potential

v) The specialized agency with CIBMS facility for border management.

Challenges

i) Shekatkar Committee highlighted issue of silos working, with lack of adequate coordination and accountability

ii) The lack of capacity to tackle new challenges across digital platform or vulnerability of critical infrastructure

iii) The prevalence of nexus continues across Kashmir and North East region due proximity to Golden crescent and golden triangle

Next IAS ID: MT23PLTON014, TC011, 12-09-2023 04:15 PM

iv) The failure in adequate breaking of fiscal ties between the two due to advanced coordination means like cryptocurrency

Way forward :-

i) Interpol suggested for more comprehensive international collaboration

ii) FATF emphasized on controlling money flow as most important and thus strict KYC norms or money laundering prevention

iii) The modernize training of armed forces with advanced weaponary

iv) Creating dedicated wing to study across new platforms like CERT-In on digital platform

Thus need lies in more nuanced approach to tackle such ties.

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उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए Candidates must not write on this margin

20- In the backdrop of raising cyber warfare as means for asymmetric terrorism like phishing, espionage etc. accounts for more comprehensive approach

Emerging challenges :-

i) The advance means of cyber attacks like solar wind attacks or using deep fake to spread hate speech

ii) Means for spreading radicalism and fundamentalism like across Kashmir region

iii) The cyber-surviellans causing privacy hindrance and online blackmails

iv) The potential threat from organization need Wannacry, Petya

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Need to update IT Act, 2000

i) The present act fails to define and declare standard operating procedure to resolve emerging cyber crime

ii) The lack of adequate facility to safeguard critical information infrastructure

iii) The need to create adequate awareness and right practice across cyber ecosystem

iv) The efforts to prevent issue of hate speech and radicalization with proper monitoring system

v) The need to create appropriate system for coordinated work amongst agencies

Next IAS ID: MT23FLTON014, TC011, 12-09-2023 04:15 PM

Way forward

I) Integrating the suggestion and protocols for safeguard of critical infrastructure as per NCIIPC

II) The empowering of cyber organizatio like CERT-IN or cyber Swachta Kendra with proper role and responsibility under IT Act, 2000

III) Accomodating suggestion of Rajiv Gauba Committee for hate speech

IV) Integration of suggestion for regulatory sandbox with adequate guidelines for user to utilize cyber space

Thus it is necessary to be future ready in cyber ecosystem.