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RAPID REVISION SERIES (RRS)

**500 HIGH PROBABLE
TOPICS FOR UPSC
PRELIMS 2020**

TOPIC 441-460



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Session 27

**Rapid Revision Series
of
500 HIGH PROBABLE TOPICS
for
PRELIMS 2020**



TOPICS TO REVISE

441. National Policy on Biofuels
442. PM JI-VAN Yojana
443. Ethanol Blended Programme (EBP)
444. SATAT Initiative
445. Galvanising Organic Bio-Agro Resources-Dhan (GOBAR-Dhan)
446. “Swachh – Nirmal Tat Abhiyaan”
447. National Policy on Software Products – 2019
448. Contempt of court
449. National Security Act
450. Article 22 - Preventive Detention
451. Pradhan Mantri Awas Yojana (Urban) Programme; “Housing for All” Mission and Credit Linked Subsidy Scheme (CLSS)
452. Global Housing Technology Challenge
453. Electronic Vaccine Intelligence Network (eVIN)
454. Accelerate Vigyan and Science and Engineering Research Board
455. AUM (Air Unique-quality Monitoring)
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458. Dangerous Ground -- Johnson South Reef; Mischief Reef; Cuarteron Reef
459. Tuna-1 field; Bohai Sea, Yellow Sea, East China Sea
460. Mount Sinabung and Pacific Ring of Fire



Topic 441: National Policy on Biofuels

Key points:

1. About Biofuels
2. Target
 - 1) 20% blending of ethanol in petrol by 2030
 - 2) 5% blending of bio-diesel in diesel by 2030
3. Salient features
 - 1) Classification of Basic biofuels and Advanced biofuels
 - 2) It expanded the scope of raw materials for ethanol production
 - 3) Now allows use of surplus food grains for production of ethanol
 - 4) Provision for viability gap funding scheme for 2G ethanol bio refineries
 - 5) Encourages setting up of supply chain mechanisms for biodiesel production



Topic 442: PM JI-VAN Yojana

Key points:

1. Pradhan Mantri JI-VAN (Jaiv Indhan- Vatavaran Anukool fasal awashesh Nivaran) Yojana
2. Objective of the scheme
 - 1) Create an ecosystem for setting up commercial projects
 - 2) Boost R&D in 2G Ethanol sector
 - 3) Financial support to Integrated Bioethanol Projects
3. Under this Yojana, 2G ethanol Projects will be provided a Viability Gap Funding (VGF)
4. Ethanol produced will be mandatorily supplied to OMCs --> under EBP Programme
5. Centre for High Technology (CHT) --> under MoP&NG --> implementation Agency
6. CHT --> tool to create 2G Ethanol capacity and attract investments



Topic 443: Ethanol Blended Programme (EBP)

Key points:

1. Government has set targets of 10% bioethanol blending of petrol by 2022 and to raise it to 20% by 2030
2. EBP was launched in line with NBP, 2018
3. Ethanol blending in petrol is being undertaken by the Oil Marketing Companies (OMCs)
4. Covers whole country except island UT of Andaman Nicobar and Lakshadweep



Topic 444: SATAT Initiative

Key points:

1. SATAT --> Sustainable Alternative Towards Affordable Transportation
2. Launched by Petroleum Ministry --> to promote Compressed Bio-Gas (CBG) production plants
3. Launched in collaboration with PSU Oil Marketing Companies (OMCs)
4. Steps taken by the government to promote this initiative
5. Other Initiatives linked to CBG



Topic 445: GOBAR-Dhan

Key points:

1. MoDW&S --> had launched GOBAR-Dhan (Now, Ministry of Jal Shakti)
2. The scheme is being implemented as part of the Swachh Bharat Mission (Gramin)
3. Swachh Bharat Mission (Gramin) comprises two main components
4. GOBAR-Dhan --> to convert cattle dung and solid waste in farms to CBG and compost
5. Objective



Topic 446: Swachh – Nirmal Tat Abhiyaan

Key points:

1. Swachh – Nirmal Tat Abhiyaan --> Mass cleanliness-cum-awareness drive in 50 identified beaches of India
2. Covers 10 coastal States/UTs
3. Cleaning drives will be undertaken by students of Eco-clubs
4. MoEFCC and SICOM --> co-ordination
5. 2 organizations --> SICOM and NCSCM --> formed under MoEFCC --> as part of ICZM Project by WB



Topic 447: National Policy on Software Products

Key points:

1. Major aim --> To develop India as a Software Product Nation
2. To align with other Government initiatives such as Start-up India, Make in India and Digital India, Skill India etc so as to create Indian Software products Industry of USD \$70-80 billion with direct & indirect employment of \$3.5 million by 2025
3. Outlay of Rs.1500 crore --> over the period of 7 years
4. Rs.1500 crore is divided into Software Product Development Fund (SPDF) and Research & Innovation fund
5. The policy proposes to create a 5,000-crore fund with industry participation to promote emerging technology such as Internet of Things, Artificial Intelligence, Blockchain, Big Data and robotics



Topic 448: Contempt of court

Key points:

1. About contempt of court
2. Contempt of Courts Act of 1971 categorises contempt of courts as Civil contempt and Criminal contempt
3. Punishments
4. Should SC take Attorney General's consent to initiate?
5. Constitutional Backing for Contempt power for Judiciary
 - 1) Article 129
 - 2) Article 142(2)
 - 3) Article 215
6. Vijay Kurle case



Topic 449: National Security Act

Key points:

1. It is a preventive detention law
2. It was introduced by Indira Gandhi in 1980
3. Allows preventive detention for months --> if threat to national security or law and order
4. On what grounds NSA empowers the Centre and a State Govt to detain a person?
5. Max period of detention --> 12 months
6. Order can also be made by the DM or a CP --> order can also be made by the District Magistrate or a Commissioner of Police



Topic 450: Article 22 - Preventive Detention

Key points:

1. About Preventive Detention
2. The grounds for Preventive detention are -->
 - 1) security of state,
 - 2) maintenance of public order,
 - 3) maintenance of supplies and essential services and defence,
 - 4) foreign affairs or security of India.
3. A detainee under preventive detention can have no right of personal liberty guaranteed by Article 19 or Article 21
4. About Article 22
5. Safeguards provided in the constitution; Protection against arrest and detention in certain cases



Topic 451: Pradhan Mantri Awas Yojana (Urban) Programme

Key points:

1. Launched by MoHUPA
2. It envisions provision of Housing for All by 2022
3. Beneficiaries include --> EWS + LIGs + MIGs
4. About “Housing for All” Mission --> 2015-2022
5. Mission will provide central assistance to implementing agencies
6. Mission will be implemented as Centrally Sponsored Scheme (CSS)
7. About Credit Linked Subsidy Scheme (CLSS)



Topic 452: Global Housing Technology Challenge

Key points:

1. Launched by MoHUPA --> to make the construction cost effective as well as innovative
2. Goal of GHTC -->
 - to fast-track the construction of affordable housing
 - to meet the target of constructing 1.2 crore houses by 2022 (under PMAY)
3. PMAY-U Mission --> to provide all weather “pucca” houses to eligible beneficiaries
4. Aim of GHTC



Topic 453: Electronic Vaccine Intelligence Network (eVIN)

Key points:

1. Indigenously developed technology system
2. eVIN supports Universal Immunization Programme
3. eVIN provides real-time information on vaccine stocks and monitors the temperature of the cold chain through a smartphone app
4. eVIN is implemented by UNDP



Topic 454: Accelerate Vigyan

Key points:

1. Science and Engineering Research Board (SERB) --> launched an Inter-Ministerial Initiative Accelerate Vigyan Scheme
2. Provides big push to high-end scientific research and prepare scientific manpower
3. AV aims to expand the research base with three broad goals
 - 1) consolidation/aggregation of all scientific training programs,
 - 2) initiating high-end Orientation Workshops, and
 - 3) creating opportunities for Research Internships
4. Components of AV
 - 1) ABHYAAS --> 'KARYASHALA' and 'VRITIKA'
 - 2) SAMMOHAN --> 'SAYONJIKA' and 'SANGOSHTI'



Topic 455: AUM (Air Unique-quality Monitoring)

Key points:

1. Scientists in India have developed an indigenous photonic system - AUM (Air Unique-quality Monitoring) - for real-time remote monitoring of air quality parameters
2. AUM was developed with support from Department of Science and Technology's Clean Air Research Initiative
3. About Clean Air Research Initiative
4. About AUM System



Topic 456: Clean Air Initiative

Key points:

1. In 2019 --> UN, WHO, UNEP and CCAC --> announced Clean Air Initiative
2. Focus --> commit to achieving air quality that is safe for citizens, and to align climate change and air pollution policies by 2030
3. Governments at all levels can join the Clean Air Initiative by committing to specific actions
 - 1) Implementing air quality and climate change policies that will achieve the WHO Ambient Air Quality Guideline values
 - 2) Implementing e-mobility and sustainable mobility policies and actions (esp. on road transport emissions)
 - 3) Assessing the number of lives that are saved, the health gains in children and other vulnerable groups
 - 4) Tracking progress, sharing experiences and best practices --> supported by Breathelife Action Platform



Topic 457: EChO Network

Key points:

1. National program to provide a template for cross-disciplinary leadership in India
2. Focus --> increasing research, knowledge, and awareness of Indian ecology and the environment
3. The initiative has drawn in partners from Government, industry and academia, with the Office of the Principal Scientific Adviser to the Govt. of India steering the program
4. Bill and Melinda Gates Foundation, Hindustan Unilever Limited, RoundGlass, India Climate Collaborative, Ashoka Trust for Research in Ecology and the Environment (ATREE), and Centre for Cellular and Molecular Platforms (C-CAMP) are the founding partners of the EChO Network.
5. EChO Network intends to create an international distributed institute comprising individuals housed within industry, government, private, and academic sectors, combining their expertise and resources collectively to tackle large scale problems



Topic 458: Dangerous Ground -- Johnson South Reef; Mischief Reef; Cuarteron Reef





Topic 459: Tuna-1 field; Bohai Sea, Yellow Sea, East China Sea





Topic 460: Mount Sinabung and Ring of Fire

Indonesia volcano

