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**RAPID REVISION SERIES (RRS)** 

# 500 HIGH PROBABLE TOPICS FOR UPSC PRELIMS 2020

**TOPIC 441-460** 



**YouTube Initiative** 

# IASbaba's

# **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)
- 456. Clean Air Initiative
- 457. Echo Network
- 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:**

- 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:**

 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:**

- 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 -->
  - security of state,
  - 2) maintenance of public order,
  - 3) maintenance of supplies and essential services and defence,
  - 4) foreign affairs or security of India.
- A detainee under preventive detention can have no right of personal liberty guaranteed by Article 19 or Article 21
- 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
- Components of AV
  - 1) ABHYAAS --> 'KARYASHALA' and 'VRITIKA'
  - 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



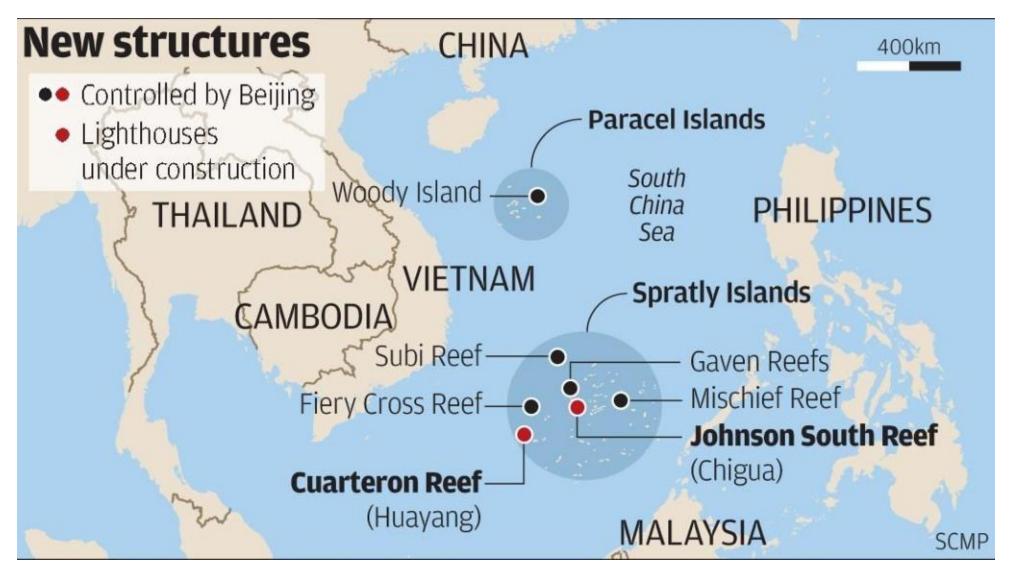
# **Topic 457: EChO Network**

#### **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

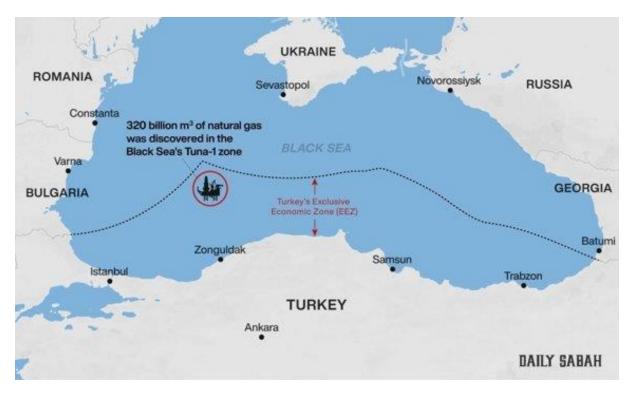


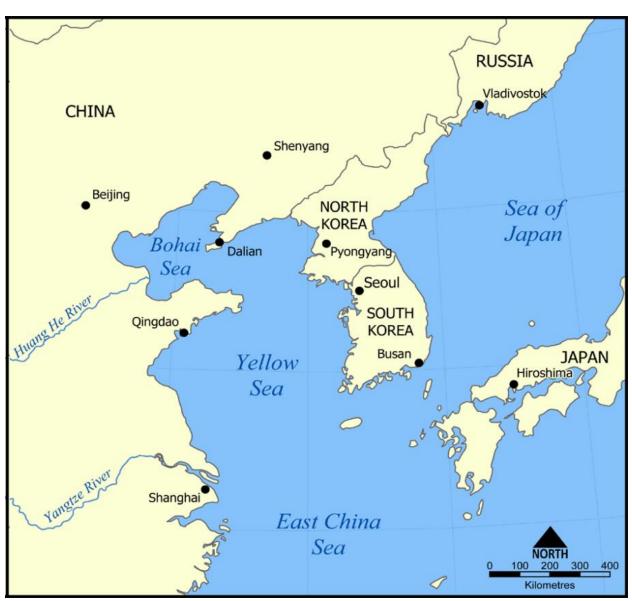
# Topic 458: Dangerous Ground -- Johnson South Reef; Mischief Reef; Cuarteron Reef





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







# Topic 460: Mount Sinabung and Ring of Fire

#### Indonesia volcano



