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RAPID REVISION SERIES (RRS)

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

TOPIC 16-30



YouTube Initiative



IASbaba's

Session 2

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



TOPICS TO REVISE

16. Biorock or Mineral Accretion Technology
17. Corals and Coral Reefs
18. Band-tail scorpionfish
19. Lonar Lake
20. Blockchain
21. ISRO's NSIL
22. IN-SPACE
23. Atmanirbhar Bharat Abhiyan
24. Credit Guarantee Fund Scheme and Credit Guarantee Fund Trust
25. Credit Guarantee Fund
26. Mudra Shishu loan and Micro Units Development and Refinance Agency (MUDRA)
27. PM SVANidhi
28. Axone and Sumi tribe
29. Pollutants in news
30. Oussudu Bird Sanctuary



Topic 16: Biorock or Mineral Accretion Technology

Key points:

1. Coral restoration in Gulf of Kachchh
2. Produce natural building materials in the sea
3. Electro accumulation of minerals dissolved in seawater on steel structures
4. Make artificial reefs - restore coral reefs
5. Wolf Hilbertz; Tom Goreau; Global Coral Reef Alliance

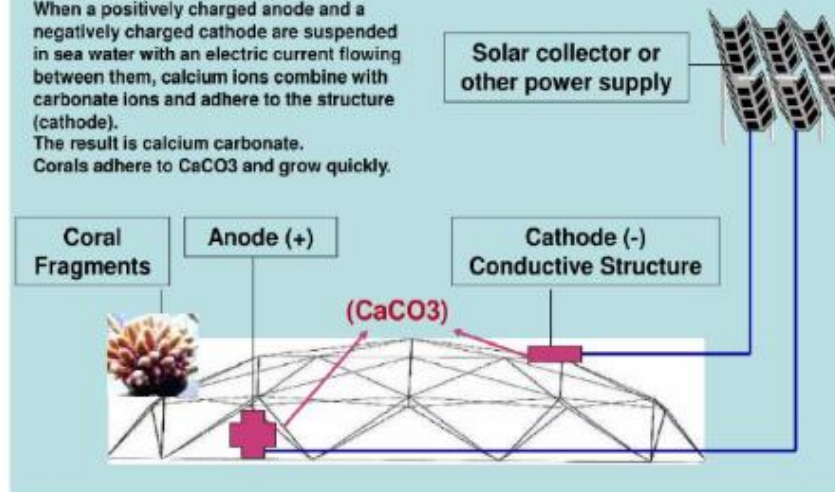


Topic 16: Biorock or Mineral Accretion Technology



How a Biorock™ Reef works

When a positively charged anode and a negatively charged cathode are suspended in sea water with an electric current flowing between them, calcium ions combine with carbonate ions and adhere to the structure (cathode). The result is calcium carbonate. Corals adhere to CaCO_3 and grow quickly.





Topic 17: Coral reefs

Key points:

1. Schedule I Wildlife Protection Act
2. Corals - invertebrate animals
3. Polyps and zooxanthellae
4. Cover less than 1 percent of the ocean floor, home to about a third of all marine life
5. Rainforests of the sea
6. Conditions for its survival – Sunlight; Clear and Clean water; Warm water temperature; Saltwater
7. Distribution



Topic 17: Coral reefs

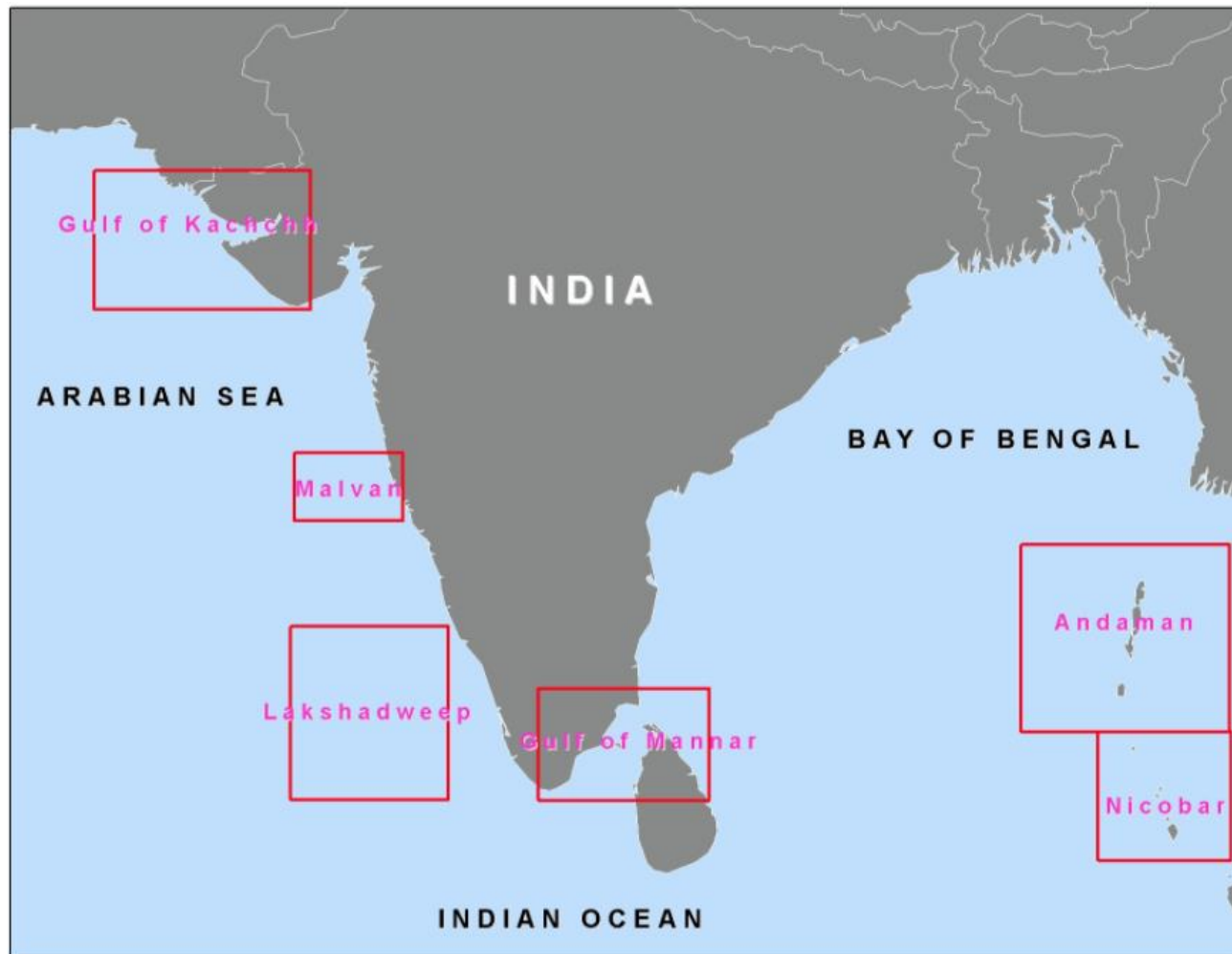


Figure: Distrubution of Corals along the Indian Coast.



Topic 18: Band-tail scorpionfish

Key points:

1. Sethukarai coast in the Gulf of Mannar
2. Commonly found in the Indo-West Pacific region
3. Unique features
4. Scientific name: *Scorpaenospsis neglecta*
5. Deposited in National Marine Biodiversity Museum of the Central Marine Fisheries Research Institute (CMFRI)





Topic 19: Lonar Lake

Key points:

1. Located in Maharashtra
2. 56,000-year-old Lonar crater sanctuary lake
3. Pink colour due to salinity and presence of salinity and salt-loving 'Haloarchaea' microbes
4. Created during Pleistocene Epoch
5. Only known hyper velocity meteorite crater in basaltic rock anywhere on Earth
6. Notified as National Geo-heritage Monument in 1979





Topic 20: Blockchain

Key points:

1. Series of data linked together
2. Uses cryptographic principles and unique identifier codes
3. Applications
4. Centre of Excellence (CoE) for Blockchain Technology
5. NITI Aayog recommendations



HOW DOES **BLOCKCHAIN** WORK



1

A wants to send money to B



2

The transaction is represented online as a block



3

The block is broadcasted to every party in the network



4

The network approves the transaction



5

The block is added to the existing blockchain in a transparent and unalterable way



6

The transaction is complete





Topic 21: ISRO's NSIL

Key points:

1. About New Space India Ltd.
2. PSE announced in Budget 2019
3. Objective – technology transfer and private manufacturing
4. Difference between NSIL and Antrix



Topic 22: IN-SPACe

Key points:

1. About Indian National Space Promotion and Authorization Centre (IN-SPACe)
2. Objective - Promote private industries in space sector
3. Difference between IN-SPACe and ISRO
4. Difference between IN-SPACe and NSIL



Topic 23: Atmanirbhar Bharat Abhiyan

Key points:

1. Special economic package worth ₹20 lakh crore
2. Aim - make India self- reliant
3. Total allocation = 10% of GDP

Five Pillars of Atmanirbhar Bharat Abhiyan

1. Economy,
2. Infrastructure
3. Systems
4. Demography and
5. Demand





Topic 24: Credit Guarantee Fund Scheme and Credit Guarantee Trust for Micro and Small Enterprises

Key points:

1. Credit Guarantee Fund Scheme for Micro and Small Enterprises (CGS)
2. Collateral-free credit
3. Coverage – Both existing and new enterprises
4. Credit Guarantee Fund Trust for Micro and Small Enterprises (CGTMSE)
5. Estd. By MoMSMEs and SIDBI



Topic 25: New definition of MSMEs

Key points:

1. Micro, Small and Medium Enterprises Development Act, 2006
2. 2 classifications -
 - 1) investment in plant and machinery for enterprises engaged in manufacturing or production of goods
 - 2) investment in equipment for enterprises providing services

New definition

1. Micro enterprise : : investment < 1 cr and turnover < 5 cr
2. Small enterprise : : investment < 10 cr and turnover < 50 cr
3. Medium enterprise : : investment < 50 cr and turnover < 250 cr



Topic 26: Mudra Shishu loan and Micro Units Development and Refinance Agency (MUDRA)

Key points: Mudra Shishu loan

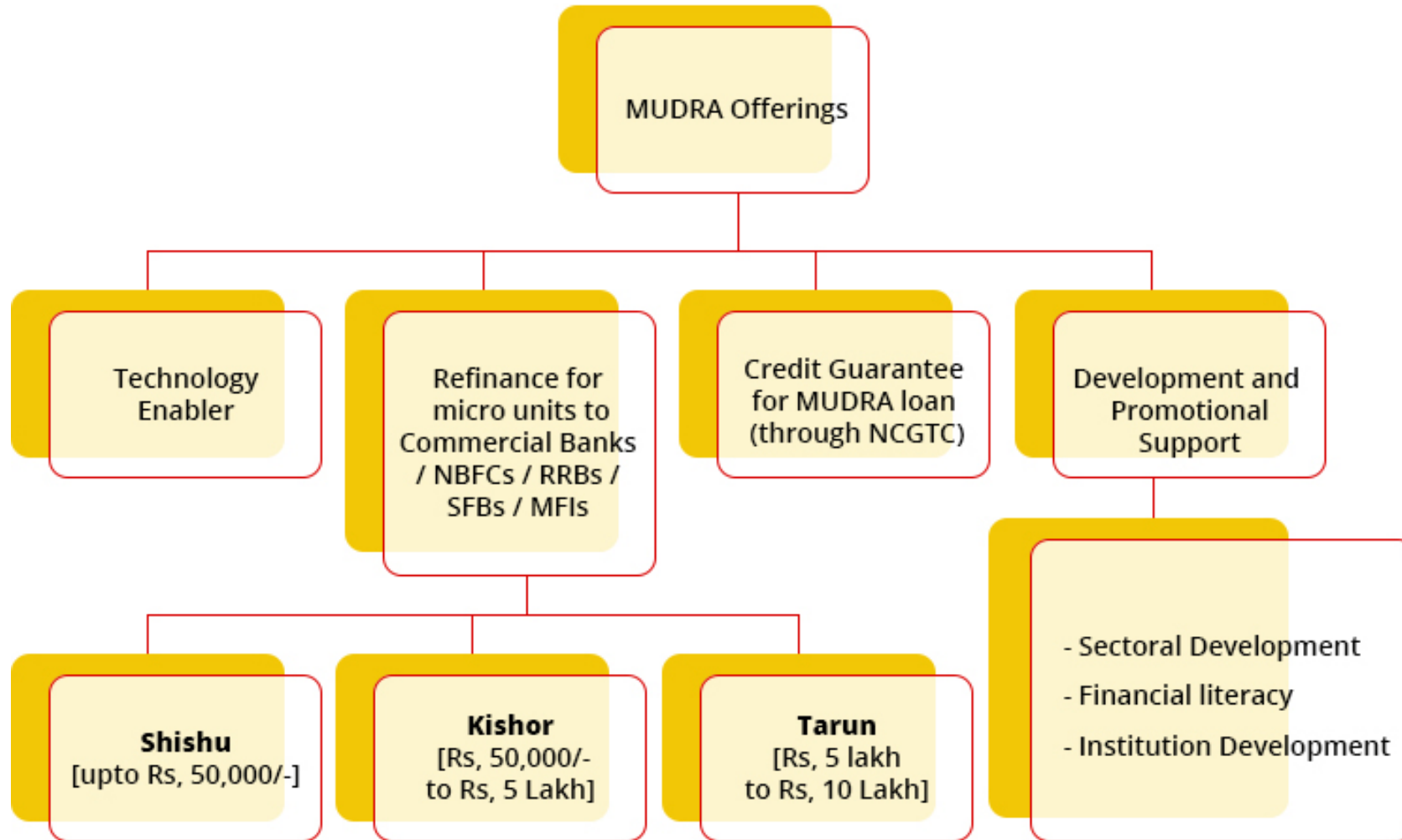
1. For small businesses and cottage industries
2. 1500 crore interest subvention
3. 2% interest rate subvention for a period of 12 months
4. Benefits small borrowers (loans up to ₹50,000)

Key points: Micro Units Development and Refinance Agency

1. Non-Banking Financial Company
2. Provides refinance support to Banks / MFIs (Loans upto 10 lakh)
3. Provides refinance to micro business under the Scheme of Pradhan Mantri MUDRA Yojana



MUDRA offers incentives through these interventions:





Topic 27: PM SVANidhi

Key points:

1. PM SVANidhi - PM Street Vendor's Atma Nirbhar Nidhi
2. Ministry of Housing and Urban Affairs
3. Special Micro-Credit Facility Scheme
4. Features -
 - 1) capital loan of up to Rs. 10,000
 - 2) repayable in monthly instalments (1 year tenure)
 - 3) interest subsidy at 7% per annum
 - 4) no penalty on early repayment
 - 5) Beneficiaries - Street vendors from peri- urban/ rural areas
 - 6) MFIs/ NBFCs/ SHG Banks



Topic 28: Axone and Sumi tribe

Key points:

1. Axone is fermented soya bean of Nagaland
2. It is used to make pickles and chutneys, or curries of pork, fish, chicken, beef etc.
3. It is particularly popular among the Sumi (also Sema) tribe.



Topic 29: Pollutants in news

Key points:

1. Dioxins, Furans, Mercury and Polychlorinated Biphenyls (BCPs) : : Toxic Pollutants from Plastic Waste
2. Dicofol, Phorate, HBCD, PFOA : : COP 9 to Stockholm Convention on Persistent Organic Pollutants
3. Malathion, parathion, diazinon, fenthion, dichlorvos, chlorpyrifos, ethion : : organophosphate chemicals to tackle Locust Attack



Topic 30: Oussudu Bird Sanctuary

Key points:

1. Man-made lake (located in TN and Puducherry) - Coromandal Coast
2. It is a wetland and Eco Sensitive Zone (ESZ)
3. Asian wetland Bureau declared Oussudu as one of significant wetlands in Asia
4. Lake is identified as a wetland of National importance
5. Designated as Important Bird Area (IBA) of India
6. Identified as a heritage sites by IUCN



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