











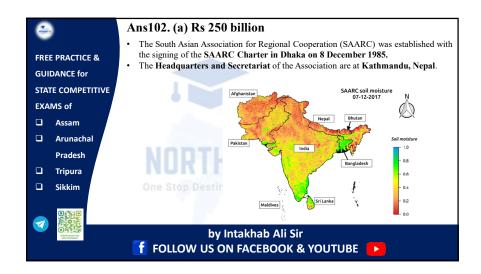
	anglishe.		Ans95. (c) Rs 20 crore		
	FREE PRACTICE & GUIDANCE for		The Scheme for Partial Reimbursement of Exploration Expenses for Holders of Exploration Licences (EL) is a program that reimburses up to 50% of exploration expenses for critical minerals. The scheme was launched on June 24, 2024 by the Indian government.		
	STATE COMPETITIVE		The scheme is funded by the National Mineral Exploration Trust (NMET) fund.		
	S. No.	Critical 1	Minerals	Major Applications	Availability in India
	E) 1.	Antimony		Flame retardants, Lead-acid batteries, Lead alloys, Plastics (catalysts and stabilizers), Glass and ceramics	No proved reserves and only inferred reserves are available in Lahul & Spiti districts of Himachal Pradesh. It is obtained commonly as a by-product in lead zinc-silver smelting by Hindustan Zinc Limited.
ı	2.	Beryllium		Manufacture of computer, electronic and optical products	Not available. Current requirements are made through imports.
١	3.	Bismuth		Chemicals, Pharmaceuticals, Casting of Iron	Not available. Current requirements are made through imports.
•	4.	Cadmium		Manufacture of electrical equipment, Chemical products, Solar cells, Electroplating, and Silver soldering	Cadmium is recovered as a by-product during zinc smelting and refining.
	5.			Electric Vehicles (EVs), Batteries, corrosion resistant alloys, Aerospace applications, Pigments and Dyes, Organic and inorganic chemical compounds.	Not available. Current requirements are made through imports.

13. Molybdenum		•	Lubricant. Steel alloys, Lubricants, Medical field, Electrical and Electronics. by Intakhab Ali S	and Kashmir (J&K). Mineable reserves are available in Harur of Tamil Nadu State.
	12.	Lithium	Electric Vehicle, <u>Rechargeable batteries</u> , Glassware, Ceramics, Fuel manufacturing,	lithium-inferred resources of 5.9 million tonnes in the Salal-Haimana area of the Reasi district in Jammu
	11.	Indium	Electronics (Laptops, LED Monitors/TVs, Smartphones), and semiconductors.	Not available. Current requirements are made through imports.
	10.	Hafnium	Superalloy, Catalyst precursor, Semiconductors, Nuclear reactors.	Normally, all Zirconium compounds contain between 1.4% and3% hainfund Indian Rare Earths Limited (IREL) and Kerala Minerals and Metals Ltd (KMML) are involved in production of Zircon.
E	9.	Graphite	Batteries, <u>Lubricants</u> , Fuel cells for EVs, Electric Vehicle	9 million tonnes reserves exist.
Si	8.	Germanium	Optical fibers, Satellites, Solar cells, <u>Infrared</u> night vision systems.	Not available. Current requirements are made through imports.
FI G	7.	Gallium	Semiconductors, Integrated Circuits, LEDs, Specialized thermometers, Barometric sensors.	Gallium is recovered as a by-product while producing alumina. Two plants, namely, HINDALCO at Renukoot, Uttar Pradesh and NALCO Damanjodi alumina refinery, Odisha, had recovered Gallium in the past.
(6.	Copper	Electrical and electronics products, Electrical Wiring, Solar Panel, <u>Automotive industry.</u>	Current copper concentrate production meets only 4% of the demand for copper smelters and refineries, requiring substantial imports.

			Mail II and the Control of the Control	Not available.
4		Niobium	Metal alloys (steel), Jet engines, Rockets, Construction	
	14.		beams, Oil rigs and pipelines, Superconducting magnets,	Current requirements are made through
100			MRI scanners, Nuclear power plants.	imports.
FF	15.	Nickel	Stainless steel, Solar panels, Batteries, Aerospace, Defence applications and Electric Vehicle.	Vedanta has a nickel and cobalt plant at Goa named NICOMET.
FI			Defence applications and Electric venicle.	Nilgiri, Boula Nuasahi and Sukinda areas ir
G	16.	Platinum Group Elements (PGE)	Jewelry, Medicine (pacemakers, chemotherapy), Electronic equipment used by military, Optical fibers, LCDs, Turbine blades	Odisha.
J				Hanumalpura area in Shimoga schist belt of
ST				Karnataka.
			Mineral fertilizer, Detergents, Food additives, Animal Feed, Rust removers, Corrosion preventers	
E)	17.	Phosphorous		Rajasthan, Jharkhand and Madhya Pradesh.
		Potash	Chemical fertilizers, Water softener, Road de-icing, pH adjustment, Explosives.	Nagaur (Rajasthan), Panna (Madhya
ш	18.			Pradesh), Sonbhadra & Chitrakoot (Uttar
	16.			Pradesh)
	19.	Rare Earth Elements (REE)	Permanent magnets, Catalyst, Polishing, Batteries,	Resource estimate of Monazite from beach
			Electronics, Defence technologies, Wind energy sector,	sand in India is 11.93 Mt having 55%-65% of
			Aviation and Space	rare earth oxides.
	20.	Rhenium	Super-allovs, Aerospace, Catalysts in petroleum industry	Not available.
				Current requirements are made through
				imports.
			Pigments for ceramics, paint and plastics, Useful in	Not available.
	21.	Selenium	photocells, solar cells and photocopiers, Additive to make	Current requirements are made through
•			stainless steel	imports
	22.	Silicon	Semiconductors, Electronics and transport equipment, Paints, Aluminum alloys	India reported production of 59000 metric
				tonnes of silicon and ranks 12th in production
				as per 2022 data
			Alloys of aluminum, Pigments and Fillers, Glass,	Not available.
	23	Strontium	rinoys of additionally, rightents and rinots, Olass,	Current requirements are made through

١	24.	Tantalum	Capacitors, Superalloys, Carbides, Medical technology	Not available. Current requirements are made through imports
FI G	25.	Tellurium	Solar power, Thermoelectric devices, Rubber vulcanising	Not available. Current requirements are made through imports
S	26.	Tin	Lead acid batteries, Metal Packaging, Solders, Home decor	Produced in the form of concentrates and metal in Chhattisgarh
E)	27.	Titanium	Color pigments in paint, Plastics, and paper, Metal alloys (aluminum, steel, molybdenum), Aircraft, Spacecraft, Missiles and rockets, Non Corrosive pipes, Ship and submarine hulls	Coastal districts of Tamilnadu, Andhra Pradesh, Odisha, Kerala, Gujarat and Maharashtra
	28.	Tungsten	Production of hard materials like high penetration alloy for weaponry, rockets, missiles, Cutting tools (tungsten carbide), Filament wires, Electrodes and Super alloys, Oil and gas drilling	Not available. Current requirements are made through imports
	29.	Vanadium	Metal alloys (steel), Military armor plating , Nuclear reactor components, Manufacturing of superconducting magnets	Total estimated reserves of vanadium ore as on1.4.2015 are placed at 24.63 million tones.
	30.	Zircon	Good nuclear fuel-rod cladding metal_Re- entry vehicles and coatings in jet engines, Used in heat shield in space shuttles	Obtained as a by-product during the beneficiation of heavy mineral sands in Manavalakurichi in Tamil Nadu.
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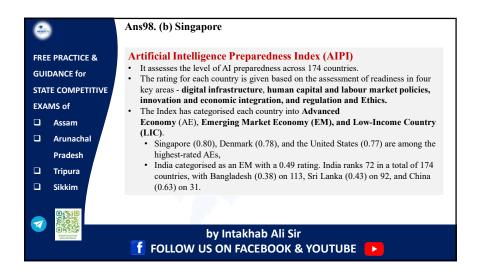








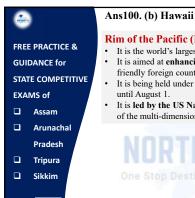












Rim of the Pacific (RIMPAC) Exercise

- It is the world's largest international maritime exercise, being held in Hawaii.
- It is aimed at enhancing interoperability and building trust among the navies of friendly foreign countries.
- It is being held under the theme of Partners: Integrated and Prepared, which runs
- · It is led by the US Navy, approx 29 countries are participating in the current edition of the multi-dimensional exercise.

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