

PRID=1597987#:~:text=Mangrove%20cover%20has%20been%20separately,the%20previous%20assessment%20of%202017.

<http://www.fao.org/3/ai387e/AI387E06.htm>

Q.3)

Ans) c

Exp) Option c is correct.

Statement 1 is incorrect. Promising concentrations of vanadium in the palaeo-proterozoic carbonaceous phyllite rocks have been found in the **Depo and Tamang areas of Arunachal Pradesh's** Papum Pare district.

Statement 2 is correct. China was the world's top vanadium-producing country in 2019 with output of 40,000 MT. China, which produces 57% of the world's vanadium, consumed 44% of the metal. The largest deposits are also in China, followed by Russia and South Africa.

Statement 3 is correct. Vanadium alloys are durable in extreme temperature and environments, and are **corrosion-resistant**. Its addition **improves the tensile strength of steel** and of reinforcing bars used for buildings, tunnels and bridges.

Statement 4 is correct. It **increases fuel-efficiency in automotive and aviation industries** due to its high strength-to-weight ratio. Vanadium also forms the integral part of vanadium redox batteries that have the least ecological impact in energy storage.

Knowledge Base: Vanadium mineralization in Arunachal Pradesh is geologically similar to the "stone coal" vanadium deposits of China hosted in carbonaceous shale. The expected **grade of vanadium** mineralization in Arunachal Pradesh **is comparable to** the important vanadium deposits of the world.

Vanadium in its pure form is a soft, grey and ductile element primarily derived from mined iron ore, carbonaceous shale or phyllites and steel slag.

Source: <https://www.thehindu.com/news/national/other-states/arunachal-now-on-indias-vanadium-map/article33544369.ece>

Q.4)

Ans) c

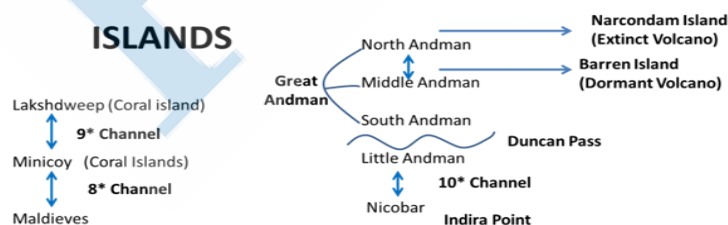
Exp) Option c is correct.

Statement a is incorrect. Ten-degree channel (10 degrees north latitude) separates Little Andaman Islands with Nicobar Islands.

Statement b is incorrect. Nine-degree channel (9 degrees north latitude) separates Amindivi and Cannanore.

Statement c is correct. **Eight-degree channel** (8 degrees north latitude) **separates Lakshadweep and Maldives**

Statement d is incorrect. Diego Garcia lies south of Equator.



Source: Oxford Student Atlas for India 2nd ed. – page no.29 and 54

India A Comprehensive Geography, chapter-3 Physiography, page no- 88-89