



Daily Article (Bharath's Reading list) - Answers and Explanations 06.09.2023

Article link : <https://bit.ly/3R7dafJ> (The Secret Life of the 500+ Cables That Run the Internet)

1. All the following are reasons why subsea cables are reaching everywhere, except:
- A. They offer considerable economic advantages in terms of faster internet speeds, lower prices, boost in employment and boost to economic activity
 - B. As the world's hunger for content continues to increase, subsea cables provide the infrastructure to serve that
 - C. Reliable subsea networks are key to avoiding interruptions to computer services worldwide
 - D. Subsea cables are low-cost and low-tech, coated in tar and unspooled by ships employing basically the same process used in the 1850s

Explanation : D

All options except D are true. The article clearly states the cables are expensive to install.

2. Based on the article, which of the following is incorrect?
- A. Sub sea cables need repeaters installed periodically along the cable to reduce cable breaks
 - B. Replacing copper with glass fiber optic strands helped to boost the capacity of the cables many fold
 - C. Outside the fiber optic strands, a copper layer carries electricity to power repeaters
 - D. Network equipment ashore at either end of a cable encodes data into the light for transmission and decodes it after it is received.

Explanation: A

Note the lines, 'Fiber optics are great for fast broadband and long-haul data transmission, but

the technology has its limits. That's why there's a big bulge in the cable every 30 to 60 miles called a repeater, to boost the signal strength.'

3. Which of the following is a vulnerability in subsea cables?

- A. The cables are severed by fishing equipment and anchors, particularly in crowded corridors
- B. Large-scale climatic events like hurricanes, earthquakes and mudslides can also sever cables
- C. With techno-political tensions spreading to the world of subsea cables, the cables may be tempting targets in an attack
- D. All the above

Explanation: D

All given points are mentioned in the article.