

QUIZ OF THE DAY

Refer to The Hindu News Analysis Video (YouTube)

Date: 27th Dec 2022

Q1. Consider the following statement:

1. Diesel-electric submarines need to resurface more frequently, making them easier to detect.
2. India is among six nations that have nuclear-powered submarines, alongside the US, the UK, Russia, France and China.
3. India has INS Chakra 2, a type of nuclear-powered submarine.

Select the correct answer using the code given below.

- a. 1 and 2 only
- b. 2 and 3 only
- c. 1 and 3 only
- d. 1,2 and 3

Q2. Consider the following statements with respect to Interpol.

1. It was established in 1923 and India was a founding member of Interpol.
2. It is an international organization that facilitates worldwide police cooperation and crime control.
3. Research and Analysis Wing is India's nodal agency for Interpol.

Which of the statements given above is/are correct?

- a) 1 only
- b) 1 and 2 only
- c) 2 only
- d) 1, 2 and 3

Explanation and Solutions

Q1. Answer: D

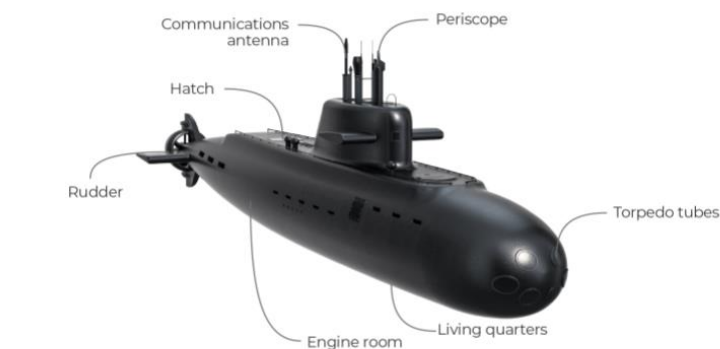
Explanation:

Diesel-electric submarines use electric motors charged by diesel engines to move. These engines require air and fuel to operate, which means they need to resurface more frequently, making them easier to detect. India is among six nations that have nuclear-powered submarines, alongside the US, the UK, Russia, France and China. India has INS Chakra 2 a type of nuclear-powered submarine leased from Russia until 2022.

MILITARY

Types of submarines

Submarines can either be **diesel-electric** or **nuclear-powered**, both types can carry nuclear warheads. Here's how they differ.



Diesel powered

- Require more frequent resurfacing making them easier to detect
- Tend to be smaller
- Cheaper to run and maintain

SSK Conventionally-powered attack submarine
SSB Conventionally-powered ballistic missile submarines



Source: The Military Balance 2021 International Institute for Strategic Studies | September 21, 2021



Nuclear powered

- Can remain completely submerged for years, limiting detection
- Tend to be larger
- Require more expensive infrastructure and maintenance

SSN Nuclear-powered attack submarine
SSBN Nuclear-powered ballistic missile submarines



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DIESEL-ELECTRIC vs NUCLEAR-POWERED SUBMARINES

Diesel-electric

Electric motors
charged by
diesel engines

Small

Cheaper
to run and
maintain

**Need to
resurface
regularly** in
order to take on
oxygen, vent
exhaust and
charge their
batteries

10-27 kmph



Nuclear-powered

Nuclear
reactor

Large

Expensive
infrastructure &
maintenance

**Can stay
underwater
for indefinite**
periods & need
to resurface
only for food
and crew
requirements

38-47 kmph

Powered By

Size

Maintenance

Endurance

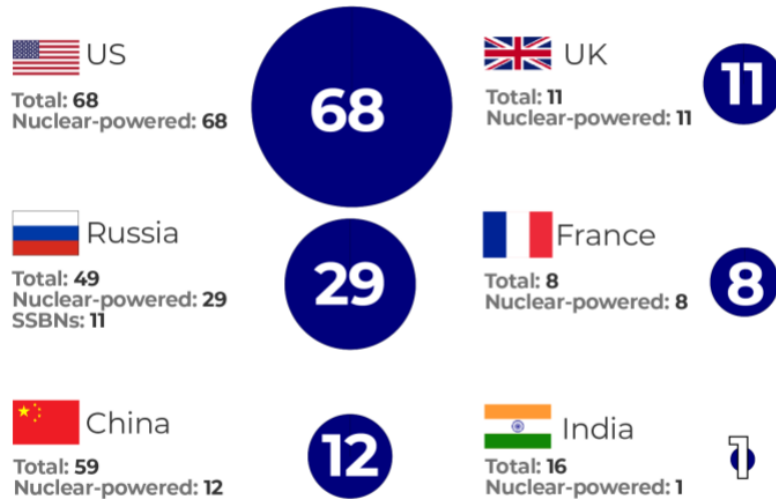
Cruising speed

SHIELDIAS

MILITARY

Nuclear-powered submarines

There are **six countries with nuclear-powered submarines**. Under a new security pact, the US and UK will enable **Australia to become the seventh**.



Nuclear-powered submarines run off of steam generated by an onboard nuclear reactor that turns the turbines.



Source: The Military Balance 2021 International Institute for Strategic Studies | September 21, 2021



Q2. Answer: C

Explanation:

India joined Interpol in 1949. It facilitates worldwide police cooperation and crime control. CBI is India's nodal agency for Interpol.



INTERPOL'S CRIME PROGRAMMES

We provide a range of policing expertise and capabilities to our member countries, supporting three main crime programmes:

COUNTER-TERRORISM	ORGANIZED AND EMERGING CRIME	CYBERCRIME
Assisting member countries to prevent and disrupt terrorist activities through the identification of individuals, networks and affiliates.	Targeting and disrupting international criminal networks; identifying, analysing and responding to criminal threats.	Making cyberspace safe for all by supporting member countries to prevent and investigate cyberattacks.

INTERPOL NOTICES



RED NOTICE
WANTED PERSONS



GREEN NOTICE
WARNINGS AND INTELLIGENCE



YELLOW NOTICE
MISSING PERSONS



ORANGE NOTICE
IMMINENT THREAT



BLUE NOTICE
ADDITIONAL INFORMATION



PURPLE NOTICE
MODUS OPERANDI



BLACK NOTICE
UNIDENTIFIED BODIES



**INTERPOL-UN SECURITY
COUNCIL SPECIAL NOTICE**
GROUPS AND INDIVIDUALS SUBJECT TO
UNSC SANCTIONS