

SLIDER TURTLE:

- It is an **american turtle**, and is acting as an **invasive species in the North-east**.
- It is threatening to invade natural bodies in North East India.
- **North eastern water bodies are home to 21 of the 29 vulnerable native Indian species of freshwater turtles and tortoises. It is home to 72% of the population of turtle and tortoise.**



Source: the hindu image: slider turtle

- Red-eared sliders were founded by an NGO named as “Help Earth” in Deepor beel and Ugratara temple pond in Guwahati. And another theme from Mizoram from Tlwang river
- It derives its name from red stripes around its ear.

JAMA MASJID

- Jama Masjid also known as the mosque of Friday or 'Masjid-i-Jahanuma' or 'Mosque commanding view of the world'.
- It is situated in Delhi and is **the country's largest** and perhaps its most magnificent mosque.
- It was built under the leadership of Mughal emperor **Shah Jahan, in 1656**. It was essentially designed as Emperor Shahjahan's principal mosque.
- It was built on the **Bho Jhala which is one of the two hills of the old Mughal capital city of Shahjahanabad**.
- East of this monument is Red fort. It has **three gateways, four towers and two minarets**.
- It is constructed by using alternating vertical strips of **red sandstone and white marble**.
- The three domes have used white marble extensively and these white marbles have been inlaid with stripes of black.



Source: nationalHeraldIndia

image: JAMA MASJID

- Hallmark of this monument: **wide staircase and arched gateways.**
- It has features of both Islamic and hindu architecture.
- It is considered as a replica **of Moti Masjid of Agra.**

IMPACT OF COVID ON PVTGs

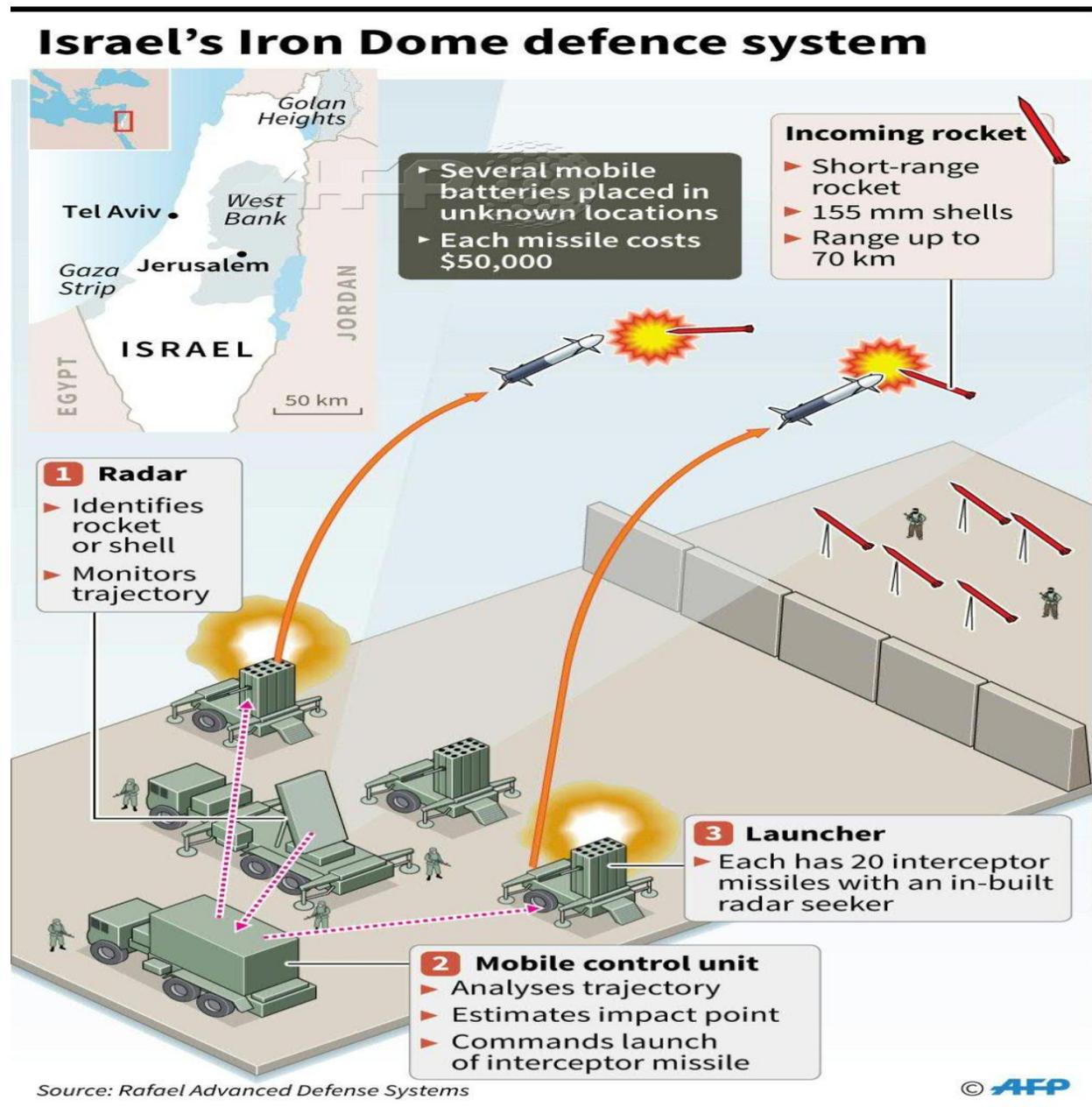
- So far 21tribals from 8 different tribes in Odisha were found infected with Coronavirus.
- These tribes include: Bonda, Dongria kondh etc.
- Anthropologists and activists had already warned of the spread among these tribes as they live in tiny huts and the spread can be at much faster pace.
- Odisha is home to 62 tribal groups out of which 13 are PVTGs. As per the census of 2011, odisha is the homeland of 9% of India's tribal population.

PVTGs: PARTICULARLY VULNERABLE TRIBAL GROUP

- Tribals constitute around 8-9% of India's population, out of this the more primitive and vulnerable are grouped as PVTGs.
- **India overall has 75 PVTGs.**
- Their special grouping was created by the Dhebar Commission in 1973, as Primitive Tribal Groups (PTGs) as a separate category. In 2006, the Government of India changed the terminology to PVTGs.

- Highest no. of PVTGs are found in Odisha.
- Characteristic of PVTGs:
 - They have a declining or stagnant population.
 - They have a low level of literacy.
 - They are generally living at a pre-agricultural level of technology.
 - They are economically backward.
 - They generally inhabit remote localities having poor infrastructure and administrative support.

IRON DOME SYSTEM:



- It is a multi mission system capable of intercepting rockets, artillery mortars and precision Guided Munitions such as a very short range air defence systems, aircrafts, helicopter and unmanned Aerial vehicles (UAV). over short ranges upto 70 km.
- Iron dome is an all weather system.
- It can engage with multiple targets simultaneously and can be deployed over land and sea both.

MANUFACTURERS:

- It is manufactured by Rafael Advanced Defence Systems.
- It has been in service with Israeli Air Force since 2011.
- Its development was taken up after a series of rocket attacks on Israel by Hezbollah and Hamas in the 2000s.

WORKING:

- It consists of a battle management control unit, a detection and tracking radar and a firing unit.
- The Iron Dome in Israel is deployed in a layered defence along with David's Sling and Arrow missile defence system which are designed for medium- and long-range threats.
- The I-DOME is the mobile variant with all components on a single truck.
- The C-DOME is the naval version for deployment on ships.

INDIA'S BALLISTIC MISSILE DEFENCE PROGRAMME

BMDP aims to provide an effective missile shield against incoming enemy ballistic and nuclear missiles. A hostile missile needs to be intercepted at boost (launch) point, mid-course (flight through space) or terminal phase (during atmospheric descent).

- It is being **developed by the DRDO as a two layered system** to tackle endo and exo missiles
- The BMD is a fully automated system which comprises of:
 - Overlapping network of early warning and tracking radar
 - Reliable command and control post
 - Land and sea-based batteries of advanced interceptor missile

It is a Two tier system:

- **Prithvi Air Defence (PAD) missile:**
 - The PAD is for high altitude interception and
 - It intercepts missiles at altitudes between **50km-80km.**
- **Advanced Air Defence (AAD) Missile:**
 - The AAD is a low altitude interception system and the

- As of 2020, the first phase of the programme is complete and DRDO is waiting for government nod to install the missiles shield over the National capital