

National Science Day, 2022

March 2, 2022

In news— Each year, February 28 is celebrated as National Science Day to commemorate the discovery of the 'Raman Effect' by Indian physicist Chandrasekhara Venkata Raman (CV Raman) in 1928.

About National Science Day-

- In 1986, The **National Council for Science and Technology Communication** (NCSTC) requested the Center to designate February 28 as National Science Day.
- After that, the Government of India accepted that proposal, and the first National Science Day was celebrated on February 28, 1987.
- **The theme for the year 2022 is 'Integrated Approach in Science and Technology for a Sustainable Future'.**

About Raman Effect-

- The Raman Effect is a **change in the wavelength of light that occurs when a light beam is deflected by molecules.**
- When a beam of light traverses a dust-free, transparent sample of a chemical compound, a small fraction of the light emerges in directions other than that of the incident (incoming) beam.
- Most of this scattered light is of unchanged wavelength.
- A small part, however, has wavelengths different from that of the incident light; its presence is a result of the Raman effect.
- It is a spectroscopy phenomenon discovered by CV Raman when he was working in the Laboratory of Indian Association for the Cultivation of Science, Kolkata.
- He observed the phenomena in 1921 when he noticed the blue colour of the Mediterranean Sea and icebergs.
- He performed various experiments and was the first one

to publish the observations in 1928 and he won a Nobel Prize for his discovery in 1930.