Context:

About 70% of Indian contribution to the **Thirty Meter Telescope (TMT)** will be in the form of both hardware and software for the telescope. Indian entities are engaged in developing observatory software as well as telescope control system.

**About TMT (Thirty Meter Telescope):**

The Thirty Meter Telescope (TMT) is an **astronomical observatory** with an **extremely large telescope (ELT)**.

It is an international project being funded by scientific organisations of **Canada, China, India, Japan and USA**.

**Planned location:**

Mauna Kea the island of **Hawaii** in the US state of Hawaii.

**Purpose:**

The TMT is designed for near-ultraviolet to mid-infrared observations, featuring adaptive optics to assist in correcting image blur.

**Significance:**

TMT will enable scientists to study fainter objects far away from us in the Universe, which gives information about early stages of evolution of the Universe.

It will give us finer details of not-so-far-away objects like undiscovered planets and other objects in the Solar System and planets around other stars.