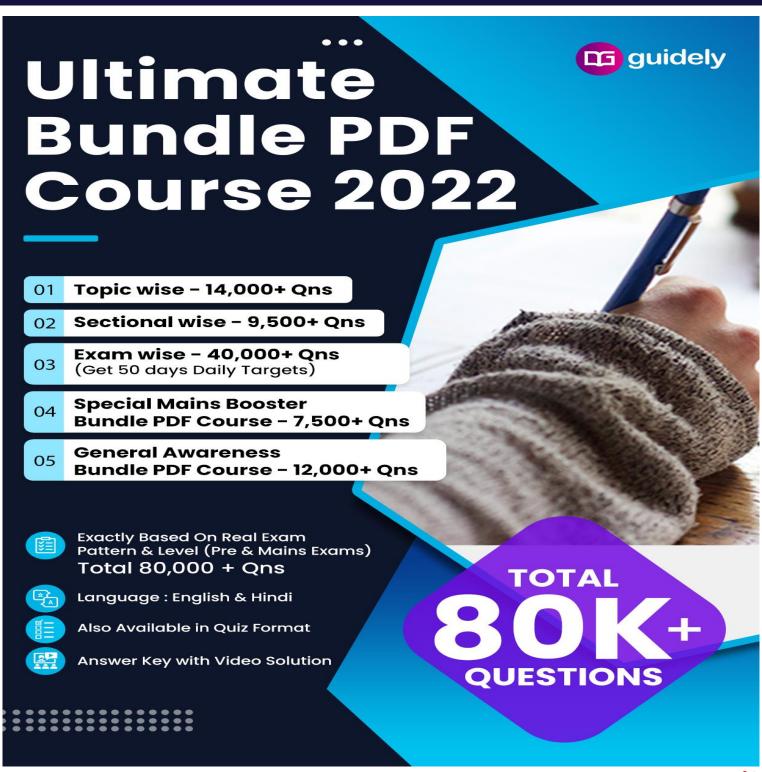




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### Historic Moment of India - Vikram-S



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### Historic Moment of India - Vikram-S



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### Historic Moment of India - Vikram-S

- The sounding rocket complex at **Sriharikota Space** successfully launched **Vikram-S**, India's first privately developed rocket, in a suborbital flight.
- The 6-meter-tall spacecraft, created by Hyderabad-based firm **Skyroot Aerospace Private Limited** and the rocket was launched with support from ISRO and IN-SPACe (Indian National Space Promotion and Authorisation Centre).
- The name of this expedition was **Prarambh**. Over the course of two years, the Vikram-S rocket was created using cutting-edge technology such as carbon composite constructions and 3D-printed parts. It is a single-stage, solid-fuel, suborbital rocket.
- The Vikram series of rockets developed by Skyroot Aerospace has been named after award-winning physicist **Vikram Sarabhai**, the Father of the Indian Space Program. Sarabhai also played a key role in developing nuclear power in India.
- Vikram-S was equipped with three customer payloads that will map the measurement and validation of specific flight parameters and payload integration processes.

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## Historic Moment of India - Vikram-S

- These three payloads were developed by the Armenian BazoomQ Space Research Lab, Chennaibased Space Kids and N Space Tech India of Andhra Pradesh.
- The Vikram-S rocket, with a body mass of **545 kg**, a length of 6 m, and a diameter of 0.375 m, is one of the most reasonably priced rockets in its category worldwide while its payload mass was 80 kg.
- The 545 kg Vikram launch vehicle consists of the Vikram II and Vikram III series.
- It reached its highest point at a height of **90 kilometres**, which is less than the 100-kilometer Kamran line, which is considered to be the boundary between Earth and outer space.
- The GIC wealth fund in Singapore is the company's backer. In response to the Narendra Modi government's intention to enable private enterprises in the space sector in 2020, it is the first startup in the space industry to sign a deal for using ISRO's launch and test facilities.
- According to Skyroot Aerospace, the rocket launch will aid in testing and validating the majority of the technologies in the Vikram series of orbital class space launch vehicles, including numerous subsystems and technologies that will be tested during the launch's pre-lift off and post-lift off phases.
- The launch of the Vikram-S rocket marked the **entry of private players** in India's space sector.

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