

December 29th, 2018 Sample Current Affairs

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1. Gaganyaan project: 3 Indians to be sent to space in Rs 10,000 crore plan

- What is the Gaganyaan project?
- Why manned missions are the most challenging ever?
- What are the long-term significances of this Gaganyaan Programme?
- What could be the implications of this space programme?

GS paper 3 (Awareness in space)

In this video, you can find detailed answers for all the above questions.

The above article has been retrieved from:

PTI. (2018, December , 29). Gaganyaan project- 3 Indians to be sent to space in Rs 10,000 crore plan. Indian Express. Retrieved from <https://indianexpress.com/article/india/gaganyaan-indias-first-manned-spaceflight-mission-gets-govts-clearance-5513648/>

What is the context about?

- In a boost to India's aerospace missions, the Cabinet Friday approved the indigenous spacecraft project called Gaganyaan.
- Under the project a three-member crew will be sent to space for at least seven days.

- ❑ A human rated GSLV Mk-III will be used to carry the orbital module which will have necessary provisions for sustaining a 3-member crew for the duration of the mission.

What is the Gaganyaan project?

The Gaganyaan project is a manned space mission which is distinct from previous space missions by Indian Space Research Agency (ISRO) because no other mission has involved sending astronauts in an indigenously built spacecraft. The project shall be completed at an estimated cost of Rs 10,000 crores.

Why manned missions are the most challenging ever?

- ❑ In terms of complexity and ambition, even the missions to the Moon (Chandrayaan) and Mars (Mangalyaan) are not considered to be as complex as a manned mission.
- ❑ This is primarily because such manned missions involve the ability to bring back the astronauts to a pre-determined landing ground. The mission also involves the simulation of Earth-like conditions in space.

What are the long-term significances of this Gaganyaan Programme?

- ❑ Gaganyaan Programme will establish a broader framework for collaboration between ISRO, academia, industry, national agencies and other scientific organizations.

- ❑ This will allow pooling in of diverse technological and industrial capabilities and enable broader participation in research opportunities and technology development benefiting large number of students and researchers.
- ❑ The flight system realization will be through Industry.
- ❑ It is expected to generate employment and train human resources in advanced technologies.
- ❑ It will inspire large number of young students to take up science and technology careers for national development.

What could be the implications of this space programme?

- ❑ The programme is expected to spur research and development within the country in niche science and technology domains.
- ❑ Huge potential for technology spinoffs in areas such as medicine, agriculture, industrial safety, pollution, waste management, water and food resource management etc.
- ❑ Human spaceflight programme will provide a unique micro-gravity platform in space for conducting experiments and test bed for future technologies.
- ❑ The programme is expected to give impetus to economic activities within the country in terms of employment generation, human resource development and enhanced industrial capabilities.

