

WORD LIST-2 (JAN 14, 2022)

1. **Indian Space Research Organisation (ISRO)** (noun) – Indian Space Research Organisation, formed in 1969, superseded the erstwhile Indian National Committee for Space Research (INCOOSPAR). Vikram Sarabhai, having identified the role and importance of space technology in a Nation's development, provided ISRO with the necessary direction to function as an agent of development. ISRO then embarked on its mission to provide the Nation space-based services and to develop the technologies to achieve the same independently.
2. **harvest festival** (noun) - an annual celebration that occurs around the time of the main harvest of a given region.
3. **harvest** (noun) – the period of gathering in of the crops.
4. **at the helm** (phrase) – in charge, in command/control/authority; in the driving seat.
5. **helm** (noun) – in charge, in command, in authority, position.
6. **Vikram Sarabhai Space Centre (VSSC)** (noun) - Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram is the lead Centre of ISRO responsible for the design and development of launch vehicle technology.
7. **succeed** (verb) – replace, take the place of, take over from, come after, follow.
8. **take over** (phrasal verb) – assume control of, take control of, gain control of, take charge of, take command of.
9. **consecutive** (adjective) – successive, in a row, one after the other, back-to-back, continuous.
10. **expertise** (noun) – skill, prowess, proficiency, knowledge.
11. **cryogenics** (noun) – the branch of physics that deals with the production and behaviour of materials at very low temperatures.

Note:

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12. **cryogenic stage** (noun) – A cryogenic engine/ cryogenic stage is the last stage of space launch vehicles which makes use of Cryogenics. This third/last stage uses a Cryogenic engine, which uses liquefied oxygen and hydrogen as fuel. A Cryogenic rocket stage is more efficient and provides more thrust for every kilogram of propellant it burns compared to solid and earth-storable liquid propellant rocket stages. However, cryogenic stage is technically a very complex system compared to solid or earth-storable liquid propellant stages due to its use of propellants at extremely low temperatures and the associated thermal and structural problems.
13. **for instance** (phrase) – as an example.
14. **development** (noun) - evolution, growth, expansion, enlargement, progress, success, burgeoning, headway.
15. **Mars Orbiter Mission (MOM) or Mangalyaan** (noun) - India's Mars Orbiter Mission (MOM)—or Mangalyaan (Hindi for "Mars Craft")—is the country's first mission to Mars (the Red Planet). The mission aims to test key technologies for interplanetary exploration and to use its five science instruments to study the Martian surface and atmosphere from orbit.
16. **Chandrayaan 2** (noun) - Chandrayaan-2 is the second lunar exploration mission developed by the Indian Space Research Organisation (ISRO), after Chandrayaan-1. It consists of a lunar orbiter, and also included the Vikram lander, and the Pragyan lunar rover, all of which were developed in India. The spacecraft was launched on 22 July 2019. However, the lander crashed when it deviated from its intended trajectory while attempting to land on 6 September 2019. ISRO will re-attempt a landing in 2023 with Chandrayaan-3.
17. **Chandrayaan 1** (noun) - Chandrayaan-1 was the first Indian lunar probe under the Chandrayaan program. It was launched by the Indian Space Research Organisation in October 2008. The mission was a major boost to India's space program, as India researched and developed its own technology in order to explore the Moon.

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18. anticipation (noun) - expectation, hope.
19. oversee (verb) – supervise, be in charge of, be responsible for, look after, keep an eye on, inspect.
20. unfurl (verb) – unfold, open, expand.
21. Gaganyaan mission (noun) – ISRO's human spaceflight programme which will carry humans to space. The objective of Gaganyaan is to carry a crew of three to Low Earth Orbit (LEO), perform a set of predefined activities in space, and return them safely to a predefined destination on earth.
22. mission (noun) – expedition, journey (into space); assignment, project, operation.
23. Aditya-L1 (noun) – ISRO's solar mission Aditya-L1 to a vantage point in space, known as the L1 Lagrange point, to do imaging and study of the sun. (The L1 point of the Earth-Sun system affords an uninterrupted view of the sun and it lies 1.5 million kilometres inside the Earth's orbit, partway between the Sun and the Earth). (vantage point means a position from which you can see things well).
24. morph (verb) - undergo a gradual process of change/transition.
25. grow into (phrasal verb) - become something due to gradual increase/development.
26. solar physics (noun) - the branch of astrophysics that specializes in the study of the Sun.
27. space observatory (noun) - a building/structure containing telescopes and supporting instruments with which to observe celestial/astronomical objects.
28. Lagrange Points (noun) – Lagrange points are positions in space where objects sent there tend to stay put (remain without moving). At Lagrange points, the gravitational pull of two large masses (Eg. The Sun and The Earth) precisely equals the centripetal force required for a small object to move with them. These points in space can be used by spacecraft to reduce fuel consumption needed to remain in position.

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29. [Lagrangian point one \(L-1\)](#) (noun) - a vantage point in space, known as the L1 Lagrange point. (The L1 point of the Earth-Sun system affords an uninterrupted view of the sun and it lies 1.5 million kilometres inside the Earth's orbit, partway between the Sun and the Earth). (vantage point means a position from which you can see things well).
30. [frontier](#) (noun) – the extreme limit or point (of achievement in a particular area of activity).
31. [breach](#) (verb) – break.
32. [stance](#) (noun) – point of view, viewpoint, opinion, standpoint.
33. [transition](#) (noun) – change, transformation.
34. [privatisation](#) (noun) – transfer of a business, industry, academic institutions, or service from public to private ownership and control.
35. [largely](#) (adverb) – to a large/great extent.
36. [preoccupy](#) (verb) – engross, concern, absorb, obsess, occupy.
37. [socio-economic](#) (adjective) – relating to the interaction of social (position, rank, or importance) and economic (income, pay, and wealth) aspects.
38. [of course](#) (phrase) – certainly, definitely, absolutely; obviously, clearly.
39. [venture](#) (noun) – project, scheme, undertaking, operation, activity.
40. [participation](#) (noun) – involvement, engagement, contribution.
41. [pursue](#) (verb) – engage in, conduct, take part in, take up (an activity).
42. [NewSpace India Limited \(NSIL\)](#) (noun) – NewSpace India Limited (NSIL), incorporated on 6 March 2019 (under the Companies Act, 2013) is a wholly owned Government of India company, under the administrative control of Department of Space (DOS). NSIL is the commercial arm of Indian Space Research Organisation (ISRO) with the primary responsibility of enabling Indian industries to take up high technology space related activities and is also responsible for promotion and commercial exploitation of the products and services emanating from the Indian space programme.

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43. float (verb) - put forward, come up with, submit, propose, offer, proffer, posit, present.
44. arm (noun) – branch, section, department, division, sector.
45. Indian National Space Promotion and Authorization Center (noun) - a channel/method through which non-governmental private enterprises can carry out space activities.
46. enterprise (noun) – organization, company, firm.
47. carry out (phrasal verb) - conduct, perform, implement, execute, discharge, bring about.
48. get up to (phrasal verb) - be involved in something, particularly something surprising.
49. put something to the test (phrase) - find out how useful/effective something is.
50. sister organisation (noun) - an agency or body which is nearly or completely dependent upon another organization to exist.
51. have something to offer (phrase) - if you have something to offer, you have a quality or ability that makes you important, attractive, or useful.
52. spin-off (noun) – outcome, result, by-product.
53. underlie (verb) – be the cause of, be the basis of, be the fundamental of.
54. stem from (phrasal verb) – originate from, arise/come from, emanate from.
55. perspective (noun) – outlook, viewpoint, way of thinking, interpretation.
56. unfold (verb) – narrate, tell, reveal, make known, disclose, present, communicate, portray, spell out.
57. horizons (noun) – range of experience, outlook, perspective, perception, purview.
58. oneness (noun) – amicability, friendship, unity/solidarity.

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