

Biology

1. What is plasma?
2. What are blood groups?
3. What are zoonotic diseases, and can you name some recent ones?
4. Why is Rh-negative more prevalent in India compared to Rh-positive, and does it relate to our ancestry?
5. What are the reasons for low hemoglobin levels in women, and what are the health impacts? What is this condition called?
6. Besides medication, what measures are needed to address anemia?
7. Have you heard about filariasis cases in Uttar Pradesh recently?
8. What are zoonotic diseases, and can you name some recent ones?
9. Can you suggest a general diet plan for a healthy person?
10. Why is diabetes on the rise in India, according to WHO?

Physics

1. What is maglev technology? Which countries operate maglev trains, and how do they work?
2. What is LED, and why is it more energy-efficient?
3. What are semiconductors? Why is India pushing for it?
4. What are black holes? Are they present at the centers of all galaxies?
5. Explain quantum computing, entanglement, and superposition.
6. What is string theory? What happens if someone enters a black hole

Information Technology

1. What is blockchain, and how is it stored?
2. What is cryptocurrency, its pros, and cons?
3. Name three cryptocurrencies.
4. What is net neutrality? How will its absence hamper democratic use of the internet and information flow?
5. Why is India a global leader in software but not in AI? Are we lagging behind, and how many large language models does China have?
6. What is the difference between AI and technology?
7. Define artificial intelligence.
8. What distinguishes AI from ML?
9. What is machine learning, and what kind of machines can learn on their own?
10. What is an intrusion detection system, and can it be used for VIP security?
11. What is cybersecurity, and what are its key aspects?

12. What are the various aspects of cybersecurity, and how can we create a resilient infrastructure?
13. What is VoIP? Can communications via VoIP be tracked?
14. What is the metaverse? Could it reduce the relevance of the physical world?
15. How does AI access data, and what are its primary database sources?
16. Have you heard of singularity in AI?

Space Technology

1. What is LEO? Should India regulate satellites in LEO, and how can the country become a key player in this sector?
2. What is Aditya L1, and what does the term "L1" signify?
3. Why not study the sun from Earth rather than sending missions like Aditya L1?
4. What are the advantages of studying the sun up close?
5. Which countries have launched moon missions after India?
6. What is the significance of "L1" in Aditya L1?
7. How is Chandrayaan-3 different from other lunar missions? Why target the moon's south pole?
8. After the Chandrayaan-3 mission, where exactly did India land on the moon? What was Vikram's role? Why was it put to sleep? What are the temperature and density differences between the moon and Earth?
9. How do space programs benefit us?
10. Should ISRO focus only on scientific missions?
11. How does ISRO contribute to industrial development?
12. What are the key takeaways from the Chandrayaan-3 mission?
13. What is the significance of the XPOSAT mission?
14. Why not establish a sun observatory on Earth?
15. Who will reach Mars first: digital avatars or physical humans?
16. If a digital avatar dies on Mars, will it affect its physical counterpart on Earth?

Defense Technology

1. What is INS Imphal, and why was it in the news?
2. What type of ship is INS Imphal, and what is its parent class? How many ships belong to this class, and are there others of the same type?
3. Why is India importing Rafale jets instead of using indigenous ones? How do Rafale and Tejas compare technically?
4. What is the INSAS rifle?
5. Why are we still using and importing AK-47 rifles despite having INSAS?
6. What is the role of communication and electronics in defense?
7. Tell me about missiles and their applications.

Renewable Energy and Sustainable Development

1. What are the challenges to the growth of nuclear energy?
2. What are the hurdles in the expansion of solar energy?
3. Why does India rely heavily on imports of solar modules from China instead of manufacturing them domestically?
4. What efforts are being made for solar rooftops?
5. How do you assess India's renewable energy sector, and what steps are needed for its expansion?

Disruptive and Emerging Technologies

1. What is disruptive technology? Can you give an example?
2. What are smart rings, and how can they benefit people?
3. What are the latest developments in mechanical engineering?
4. What advancements are being made in EV batteries?
5. How does a solid-state lithium battery function?
6. What is the future of lithium batteries and EVs in India?
7. What is IoT? What challenges does it face, and how can they be addressed?

Applied Sciences

1. What do you study in food technology?
2. What do you like about food technology?
3. What are semiconductor chips, and what are their uses?

Environment, Disaster Management, and Health

1. What are the extreme disasters faced by India, and what measures are currently in place to mitigate them?
2. What happened in the recent tunnel accident in Uttarakhand, and how were the workers rescued?
3. What was the name of the machine used in that incident? Is rat-hole mining legal or illegal?