4th July, 2024

1. Mumbai-Ahmedabad Bullet Train Project **GS 3 (Infrastructure)**

Why in News: The Mumbai-Ahmedabad bullet train is expected to begin operations in Gujarat by 2027 end and will later be extended to Maharashtra, according to the National

High Speed Rail Corporation Limited (NHSRCL).

About Mumbai-Ahmedabad Bullet Train Project:

- The foundation stone for the Mumbai-Ahmedabad bullet train project was laid in 2017.
- Speed and Distance: The bullet train will zip along at 320 kmph, covering the 508.17 km distance between Mumbai and Ahmedabad in just about two hours.
- Cost and Completion: Estimated at Rs 1.65 lakh crore, the project is slated for completion by 2028.
- National High-Speed Rail Corporation Established under the Companies Act, 2013, NHSRCL aims to finance, construct, maintain, and manage highspeed rail corridors across India.
- The Need for High-Speed Rail

Challenges of Indian Railways: With over 67,415 route km, Indian Railways forms the backbone of

the nation's transport system. However, overcrowding on main routes, with some operating at 150% capacity, has slowed down travel speeds and shifted traffic to less efficient road transport.

Logistical Constraints: Congestion on rail routes increases turnaround times for goods, impacting manufacturing efficiency and competitiveness.

Mumbai-Ahmedabad bullet train expected to begin operations in Gujarat by 2027 end

Since the project is in

a more advanced stage

in Gujarat, it is prudent

NHSRCL SPOKESPERSON

rail corridor, 90% is elevat ed. Twelve stations will dot the corridor – eight in Guj-

three hours. Currently, the Mumbai-Ahmedabad

Ateeq Shaikh

The Mumbai-Ahmedabad bullet train, Prime Minister Narendra Modi's pet pro-ject, is expected to begin operations in Gujarat by 2027 end and will later be extended to Maharashtra,

extended to Maharashtra, according to the National High Speed Rail Corporation Limited (NHSRCL). The first phase of operations is likely to begin almost of the Cujarat Assembly election, which is due in 2027 with the term of the House expiring on December 19, 2027. "Trial runs are expected to start in 2026 between Surat and Billimora (a 50-km stretch). Since the pro-

teu. I welve staunts will during the corridor – eight in Gujarat (Sabarmati, Ahmedabad, Anand, Vadodara, Bharuch, Surat, Bilimora, and Vapò and four in Maharashtra (Boisar, Virar, Thane, and Mumbal). Plans are afoot to begin operations between Vadodara and Vapi by 2027. The NHSRCL aims to complete the project by the second half of 2028. The service is expected to reduce travel time between the two cities to three hours. Currently, the Surat and Bilimora (a 50-km stretch). Since the pro-ject is in a more advanced stage in Gujarat, it is prudent to start commercial operations here first and then expand services to Maharashtra as construction work gets completed there," an NHSRCL spokes person told The Hindu. Out of the 508-km-long

Vande Bharat is the fastest train on the route, with a travel time of five and a half hours. Travel by air takes about 95 minutes

As of May 2024, overall progress of 44% has been made, with 53% of the work completed in Guja rat, and 25.6% in Maha rashtra. As of June, of the 508-km route, 183 km of viaduct and 313 km of pier work have been complet-ed. Of the 1,390 hectares

ed. Of the I,390 hectures earmarked for the project, 960 are in Gujarat and Da-dra and Nagar Haveli, and 430 in Maharashtra. Land 430 in Maharashtra. Land petted for the rail corridor. Laying of tracks has be-gun in Gujarat, with over 35,000 metric tonnes of rails and three sets of track construction machinery at Surat and Vadodara. The assembly, testing, and commissioning of the macommissioning of the ma

stretch part of the project's 21-km tunnel between Ban-dra Kurla Complex and Shilphata, is under way. The undersea tunnel is ex-

The undersea tunner is ex-pected to be completed by mid-2028. Excavation to build five mountain tun-nels in Palghar is on. When the builet train project was launched in 2017, the initial deadline was December 2023. The timeline had to be revised. owing to land acquisition challenges in Maharashtra and restrictions owing to the COVID-19 pandemic.

Funded by the Japan In-ternational Cooperation Agency (JICA) through an Official Development Assis-Omcial Development Assistance (ODA), the project's total cost is estimated at ₹1.08 lakh crore. It is yet to be revised owing to delay in completion. The last tranche was signed between JICA and the Union government in Pro-2023, with an ODA of 400 billion Japanese yen or ap-proximately ₹22,627 crore.

Benefits of High-Speed Rail

- Capacity Release and Safety: High-speed rail will alleviate congestion on existing lines, enhancing passenger safety and comfort.
- **Environmental Impact:** Powered by indigenous electric power, high-speed rail reduces dependence on imported fuels, lowering greenhouse gas
- Airport Congestion: By reducing short-haul flights, high-speed rail frees up airport capacity for more economical long-haul flights.
- Global Examples: Successful implementations in Japan, Europe, and China demonstrate how highspeed rail enhances connectivity and boosts
- A study found that towns connected by high-speed rail saw their GDP riseby at least 2.7 per cent compared to those not on the route.



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2. <u>Trials, Medical Ethics, and the Orbit of Power</u> GS 2 (Health)

Why in News: Recent controversies in Indian medical research particularly the Covaxin trial in Bhopal, have highlighted ethical challenges in clinical trials and drug development. These events underscore issues of informed consent, regulatory oversight, and protection of vulnerable populations emphasizing the need for stronger ethical frameworks and accountability in India's healthcare and pharmaceutical sectors

Ethical Violations in Clinical Trials

- Introduction to the Issue: The controversy centers around alleged ethical violations during the clinical trials of Bharat Biotech's Covaxin at the People's Hospital in Bhopal. Allegations include the lack of informed consent, enrollment of vulnerable populations, and inadequate reporting of adverse events.
- Regulatory Oversight and Ethical Lapses: The approval process by the Central Drugs Standard Control Organisation (CDSCO) is scrutinized, especially the introduction of terms like "Restricted Use under Clinical Trial Mode," which lack a clear legal framework.
- Role of Ethics Committees: The functioning of ethics committees at trial sites is questioned, with concerns about their effectiveness and transparency. The Supreme Court's intervention underscores the need for public disclosure of clinical trial data.

Challenges Faced by Whistleblowers

- Whistleblower Risks: The editorial highlights the experiences of whistleblowers who expose ethical violations in medical trials, drawing parallels with global cases documented by bioethicist Carl Elliott.
- Inadequate Legal Protection: India's weak whistleblower protection laws, further diluted in 2015, fail to safeguard those exposing wrongdoing. The societal and institutional pressures against whistleblowers are emphasized.
- Cultural and Social Barriers: Deep-rooted issues like groupthink, fear of retribution, and social conformity hinder the emergence of whistleblowers. The need for a cultural shift towards valuing integrity and dissent is highlighted.

Systemic Issues in Medical Research

- Lack of Expertise in Drug Development: The editorial points out that India's medical community lacks the necessary expertise in clinical development, often leading to ethical compromises in trials.
- Informed Consent and Vulnerable Populations: There is a historical pattern of enrolling poor and uneducated individuals in trials without proper informed consent. This is exacerbated by the inadequate functioning of institutional ethics committees.
- **Regulatory Failures:** A 2022 study in PLOS Global Public Health identified numerous problems with the ethics committees' operations in India, including the approval of clinical trials without proper oversight.

3. <u>Factory Accidents, a Pointer to Rusty Inspection Reform</u> GS 2 (Social Issues)

- Why in News: The recent factory explosion in the Dombivli Maharashtra Industrial Development Corporation (MIDC)
 area highlights systemic issues in industrial safety and the effectiveness of the labour inspection system in India. This
 incident, along with previous accidents, underscores the need for comprehensive reform in the inspection and
 regulatory mechanisms to ensure worker safety and compliance with industrial regulations.
- Issues with Industrial Safety and Inspections
 - Frequency of Accidents: Industrial accidents in Maharashtra have been frequent, with significant incidents reported in 2016, 2018, 2020, and 2023. The recent explosion in 2024 further exemplifies ongoing safety issues.

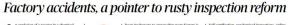
Trials, medical ethics and the orbit of power



- Inspection Rates and Personnel Shortages: In Maharashtra, only 23.89% of hazardous factories and 8.04% of registered factories were inspected in 2021. Personnel shortages contribute to this low inspection rate, with only 39.34% of sanctioned officers appointed.
- Prosecution Rates: The low prosecution rates in states like Gujarat (6.95%), Maharashtra (13.84%), and Tamil Nadu (14.45%) diminish the deterrent effect of inspections, leading to persistent safety violations.

Challenges and Criticisms of the Inspection System

Inspector-Raj and Corruption: Employers often criticize the inspection system as "inspector-raj," citing harassment and bribery. While there are instances of misuse of power by inspectors, employers are also complicit in avoiding compliance through corrupt practices.





- Self-Certification and Randomized Inspections: Reforms like self-certification, randomised inspections, and third-party certification have been introduced but fail to address the core issues. These measures violate the International Labour Organization's Labour Inspection Convention (081), 1947, which mandates qualified inspectors and unannounced inspections.
- Ineffective Reforms: The current reforms have not strengthened labour market governance. Instead, they have weakened the inspection system, failing to ensure compliance with safety regulations and exposing workers to greater risks.

Recommendations for Effective Inspection Reforms

- Strengthening Labour Market Governance: Governments should implement the provisions of the ILO Convention, ensuring sufficient qualified inspectors and unannounced inspections to secure compliance with labour laws.
- Penalties for Government Failures: There should be a penal system for government officials who fail in their duty to enforce safety regulations, ensuring accountability and compliance.
- Balancing Inspection and Facilitation: Inspectors should not only enforce laws but also provide advice to employers and unions, helping them comply with regulations and improving overall industrial safety.

4. PM 2.5 Pollution GS 3 (Environment)

 Why in News: The Lancet study reveals a serious link between air pollution and deaths in Indian cities like Delhi. Pollution particles like sulfur dioxide and nitrogen dioxide can cause respiratory issues like coughing and chest tightness.

Key-highlights of the Study

- Between 2008 and 2019, 7.2% of all deaths (approximately 33,000 each year) in 10 cities in India every year can be attributed to air pollution levels that are below India's national clean air threshold.
- Delhi recorded the highest number of air pollution-related deaths in the study period a staggering 11.5% i.e. 12,000 deaths each year.
- India's clean air norms are presently well above the World Health Organisation guideline of 15 micrograms in every cubic meter of air.

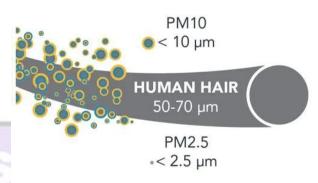
What is PM 2.5?

■ PM 2.5 are tiny particles smaller than 2.5 microns, much smaller than a human hair. They're a mix of various chemicals and can be partly liquid, unlike solid dust particles. When these particles are mainly liquid, they're called aerosols.

Air pollution behind 7% of deaths in 10 cities: Lancet study



- Natural kinds of aerosols include dust. sea salt and volcanic ash
- Man-made sources include factory and auto emissions, coal combustion and biomass burning for clearing land or farming.
- PM 2.5 particles are especially harmful as they can bypass our body's defenses like nose hairs and mucus. They can penetrate deep into our lungs, reach the alveoli, and even enter the bloodstream, posing serious health risks.



5. National Quantum Mission GS 3 (Sciance and Tech)

Why in the News: Itihaasa, a non-profit organization, has recently published an assessment of India's National Quantum Mission.

About National Quantum Mission:

- Union Cabinet approved the National Quantum Mission (NQM) in April 2023 at a total cost of 6000crores from 2023-24 to 2030-31.
- The mission aims to seed, nurture, and scale up scientific and industrial R&D, creating a vibrant and innovative ecosystem in Quantum Technology (QT).

Large gap to bridge in quantum capabilities: Report

AMITABHSINHA

INDIA MAY have done the right thing by launching a ₹6,000 crore National Quantum Mission to dereasonar quantum Mission to de-velop some of most sought-after technologies for the future, but it would have to overcome a signif-icantly large gap that currently ex-ists between its capabilities and those of other leading countries in as like the United States and China, a new assessment of nologies has revealed. The assessment by Itihaasa, a non-profit that studies the evolution of technology and business domains in the country, shows that India was just one among 17 countries to have a dedicated government programme to back research in quantum technologies, and one of the 12 to have committed separate investments for the purpose. But several countries were much ahead of India, not just in terms of committed funding for research and development but also in their and development but also in their

India's ₹6,000 crore translates to about \$0.75 billion over five years. China, on the other hand, was estimated to be spending \$15 was estimated to be spending \$15 billion for developing quantum technologies. The United Kingdom was spending \$43 billion, the United States \$3.75 billion, Germany \$3.3 billion and South Korea \$2.35 billion. India was far behind the United States and China in terms of patents obtained in quantum ethnologies till now, and in publishments.

mologies till now, and in publications in top journals

ments "the assess ment said.

Quantum technologies ex-ploit the extremely weird and counter-intuitive — but very spe-cial nonethess — properties of ciencies that are impossible to achieve with classical, non-quan-

This initiative will accelerate QT-led economic growth, foster the ecosystem in the country, and position India as one of the leading nations in the development of Quantum Technologies & Applications (QTA).

Mission Objectives:

- Developing intermediate-scale quantum computers with 50-1000 physical qubits within 8 years using various platforms like superconducting and photonic technology.
- Satellite-based secure quantum communications between ground stations over a range of 2000 kilometres
- Long-distance secure quantum communications with other countries.
- Inter-city quantum key distribution over 2000 km.
- Multi-node quantum networks with quantum memories.

Focus Areas:

- Developing magnetometers with high sensitivity in atomic systems.
- Creating atomic clocks for precision timing, communications, and navigation.
- Supporting the design and synthesis of quantum materials such as superconductors, novel semiconductor structures, and topological materials for the fabrication of quantum devices.
- Developing single photon sources/detectors and entangled photon sources for quantum communications, sensing, and metrological applications.

Mission Implementation:

- The mission implementation includes the establishment of four Thematic Hubs (T-Hubs) in top academic and National R&D institutes in the following domains:
 - **Quantum Computing**
 - **Quantum Communication**
 - Quantum Sensing & Metrology
 - Quantum Materials & Devices
- These hubs will focus on generating new knowledge through basic and applied research and promoting R&D in their respective areas.

Impact & Significance:

- NQM has the potential to elevate the country's technology development ecosystem to a level of global competitiveness.
- The mission will greatly benefit various sectors including communication, health, financial, and energy, with applications in drug design, space, banking, security, etc.
- The mission will also provide a significant boost to national priorities such as Digital India, Make in India, Skill India, Stand-up India, Start-up India, Self-reliant India, and Sustainable Development Goals (SDG).

Assessment report of National Quantum Mission:

- Itihaasa, a non-profit organization, has recently published an assessment of India's National Quantum Mission.
- As per the assessment, India may have done the right thing by launching a Rs 6,000 crore-worth National Quantum Mission to develop some of the most sought-after technologies for the future.
- The assessment shows that India was just one among 17 countries to have a dedicated government programme to back research in quantum technologies, and one of the 12 to have committed separate investments for the purpose.
- However, the report cautions that India would have to overcome a significantly large gap that currently exists between its capabilities and those of other leading countries in these areas like the United States and China.
 - India's Spending = USD 0.75 billion
 - China's Spending = USD 15 billion
 - **United States' Spending** = USD 3.75 billion
- India was far behind of the United States and China in terms of patents obtained in quantum technologies till now, and in publications in top journals.
- The assessment report found about 110-145 Indian researchers, at the principal investigator level, already working on quantum technologies at major laboratories and institutions.
- About 75-100 Post-docs and 300-400 PhD students were working with them. In addition, there were about 50-100 MTech students in different areas related to quantum technologies.
- Also, India was producing the highest number of graduates in areas related to quantum technologies, the assessment found.

6. Developing Planetary Protection Systems Against Asteroids GS 3 (Science and Tech)

Why in News:

Speaking to mark the Asteroid Day 2024 (June 30), ISRO Chairman emphasised the necessity of international collaboration in developing planetary protection systems

He also highlighted India's ambition and qualifications to join global missions focused on asteroid research and defence prior to the Apophis asteroid and Earth having a close encounter on April 13, 2029.

What is Asteroid Impact Avoidance?

against asteroids.

- It encompasses the methods by which near-Earth objects (NEO) on a potential collision course with Earth could be diverted away, preventing destructive impact events.
- An impact by a sufficiently large asteroid or other NEOs would cause massive tsunamis or multiple firestorms, depending on its impact location.

We want to be part of planetary defence mission, study asteroid: ISRO Chairman

EXPRESS NEWS SERVICE

- A collision 66 million years ago between the Earth and an object approximately 10 km/6 miles wide is thought to have
 - Produced the Chicxulub crater (buried underneath the Yucatán Peninsula in Mexico), and
 - Triggered the Cretaceous-Paleogene extinction event that is believed to have caused the extinction of all non-avian dinosaurs.

- While the chances of a major collision are low in the near term, it is a near-certainty that one will happen eventually unless defensive measures are taken.
- In 2022, NASA spacecraft Double Asteroid Redirection Test (DART) impacted Dimorphous, reducing the minorplanet moon's orbital period by 32 minutes.
- This mission constitutes the first successful attempt at asteroid deflection.
- In 2025, China's CNSA plans to launch another deflection mission to near-Earth object 2019 VL5, a 30-metre-wide (100 ft.) asteroid.
- This will include both an impactor and observer spacecraft.

• India's Journey in Planetary Defence:

Observing Apophis:

- In 2004, Indian observatories were able to see an object that was 340 metres in size.
- They came to the conclusion that there is a substantial risk that this asteroid will reach and impact Earth.
- ◆ The object is known as Apophis, and its sphere is 360 days (almost one Earth year), and it can often be seen in the vicinity of Earth.
- On April 13, 2029, it will come to a distance of around 32,000 km away from Earth and there is a fear that if there is any change in gravity, it will have an impact on Earth in 2036.

■ ISRO's plans for Apophis:

- ◆ ISRO is looking to study the asteroid in 2029 in order to prepare for planetary defence efforts to prevent the asteroid from crashing onto Earth.
- For this, ISRO could be collaborating with the **Apophis asteroid mission** a joint mission of JAXA, ESA and NASA.

• India's Future in Planetary Defence:

■ Opportunities:

- ♦ While asteroids pose potential threats to Earth, they also offer significant opportunities for scientific discovery, potentially revealing insights into the universe's formation and the origins of life on earth.
- As a major spacefaring nation with the capability to carry out complex missions of taking a spacecraft from one place to another, India will be in a position to
 - Handle an asteroid mission,
 - Land on an asteroid, and
 - Possibly carry out a planetary defence action to protect Earth.
- ◆ India should start by collaborating with other nations that have already started work in this area. For example, Japan's JAXA has gone to an asteroid and collected samples.
- ◆ ISRO should also be a part of the worldwide planetary defence programme in collaboration with other agencies.
- Funding challenges: With ISRO heavily invested in the human space mission to launch an astronaut into space, the space agency is believed to be lacking funds for new projects like asteroid missions.
- Learning from NASA's DART mission: The DART mission shows the possibilities of imparting a change of trajectory to an asteroid and causing it to depart from its course.

7. UK General Election 2024

GS 2 (International Relations)

Why in news:

- The United Kingdom is all set for a crucial general election today (July 4). Rishi Sunak, the current Prime Minister of the United Kingdom, called a snap general election for July 4, 2024, even though the next election was not required until December 2024.
- Experts and polling data suggest a landmark election is imminent, with the Labour Party likely to end the Conservatives' 14-year rule.

Nature of the Parliament of UK

■ The UK Parliament is a bicameral legislature, consisting of two houses:

House of Commons

- The lower house, made up of 650 MPs elected by the public through FPTP.
- 533 for England; 59 for Scotland; 40 for Wales; 18 for Northern Ireland

- It is the primary legislative body, responsible for making and passing laws.
- The party (or coalition) with the majority of seats forms the government, and its leader becomes the Prime Minister.
- The opposition is made up of MPs from parties not in government.

House of Lords

- The upper house, which is unelected and includes life peers, bishops, and hereditary peers.
- It reviews and suggests amendments to legislation proposed by the House of Commons.
- While it can delay legislation, it cannot ultimately prevent bills passed by the Commons from becoming law.

Nature of the Governance System

■ The United Kingdom operates under a constitutional monarchy and a parliamentary democracy. Key features include:

♦ Monarch

- The head of state is the monarch, currently King Charles III.
- The role is largely ceremonial, with real political power vested in elected bodies.

Prime Minister

- The head of government is the Prime Minister, who is the leader of the majority party in the House of
- The Prime Minister is appointed by the monarch and is responsible for running the government, making policy decisions, and representing the UK domestically and internationally.

Cabinet

- Comprises senior government ministers chosen by the Prime Minister.
- Ministers are typically heads of government departments and are responsible for implementing government policy.

Voting System of the United Kingdom

Background

◆ The House of Commons, Scottish Parliament, Welsh Parliament, Northern Ireland Assembly and UK local authorities use different voting systems.

■ First-past-the-post

- ◆ The House of Commons, mayoral elections in England, Police and Crime Commissioner elections and local councils in England and Wales use the first-past-the-post system.
- ◆ Voters select their preferred candidate. The candidate with the most votes wins.

■ Formation of the government

- If a single party wins a majority of the 650 seats, their leader will become the new Prime Minister.
- If no party achieves a majority, a hung parliament will be declared, and the largest party may attempt to form a coalition government.

Parliamentary term

Seats required for majority

♦ In this year's election, the two main contenders for Prime Minister are Rishi Sunak of the Conservative Party and Keir Starmer of the Labour Party.

What Labour's win could mean for India-UK FTA?

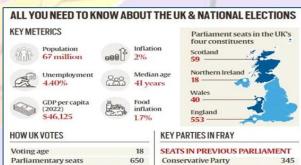
■ Background

- ◆ India and UK have been negotiating a proposed free trade agreement (FTA) for more than two years to boost trade between the two nations.
- ◆ The agreement could result in a mutual tariff relaxation on a range of goods such as cars, clothes, alcoholic beverages, and medical instruments.

Elections in the UK

After post-Brexit economic crises, scandals, and political tumult, Conservatives are likely to face a reco





5 years

Labour Party

Reform UK

Scottish National Party

Liberal Democrats

206

15

◆ However, a landslide victory for the Labour Party in the UK elections could lead to a change in the dynamic of the FTA negotiations.

■ Political certainty might be beneficial for the deal

- Since the UK's unexpected referendum to leave the European Union, London has lacked the political stability needed to negotiate a trade deal with India, which has a high tariff regime.
- ♦ However, if Labour wins decisively, there might be enough political stability to sign such a deal.

■ Growing support for India in the current Labour Party

- Under Keir Starmer, Labour party has changed. It is not the same party as that headed by his predecessor, Jeremy Corbyn, who called for international intervention in Kashmir.
- ◆ Starmer has recognised the growing political clout of the UK's Indian origin population the largest immigrant group in the country.

■ Visas a likely sticking point

- ♦ Immigration remains among the most heated issues in British politics. This could be a sticking point for a trade deal with India.
 - New Delhi is seeking temporary visas for its service sector workforce under the FTA this is where it expects to gain the most in the deal.
 - With the UK being a powerhouse in the IT and financial services segment, India's service sector could benefit from the integration.
 - But given the UK's political climate, Labour is likely to negotiate hard on the visa issue.

■ Tougher negotiations on climate

- India will also likely face tougher negotiations on climate from a Labour government.
- India has sought a relaxation on the carbon tax that the UK is expected to implement along the lines of the EU.
- A carbon tax is a government-imposed price that emitters pay for each ton of greenhouse gas (GHG) emissions they release.
- New Delhi argued during the FTA negotiations that the proposed carbon border adjustment mechanism could take away much of the tariff concessions agreed during the FTA.

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MCQ Current Affairs 4th July, 2024

1. Consider the following statements with reference to the humid heat:

A. It results from high temperatures and high levels of moisture in the air.

B. It feels cooler than the same temperature in a dry environment.

Which of the statements given above is/are correct?

- a) A only
- b) B only
- c) A and B
- d) Neither of two

2. What is the primary function of Coding DNA?

- a) To control metabolic pathways
- b) To create proteins in the cell
- c) To replicate during cell division
- d) To repair damaged DNA

3. Which one of the following statements best describes the term 'Money Mule'?

- a) Someone who invests money for others
- b) Someone who provides loans at high interest rates
- c) Someone who transfers or moves illegally acquired money on behalf of someone else
- d) Someone who offers financial consulting services

4. Exercise Nomadic Elephant, a joint military exercise is conducted between India and:

- a) Saudi Arabia
- b) Oman
- c) Bhutan
- d) Mongolia

5. Consider the following statements with reference to the Meta 3D Gen Al System:

A. It provides both high-resolution textures and material maps.

B. It uses Physically-Based Rendering (PBR) techniques to build up 3D content from scratch. Which of the statements given above is/are correct?

- a) A only
- b) B only
- c) A and B
- d) Neither of two

Answers Current Affairs 4th July, 2024

