



DAILY CURRENT AFFAIRS

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7 topics

14 stories

Your Complete UPSC Current Affairs Companion

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5 Things You Must Know

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Electoral Revision Integrity and Welfare Board Governance for Informal Sector Workers



STORY 1 **The Hindu**

Karnataka Special Intensive Revision draft rolls exclude over 1.07 crore voters

The office of the Chief Electoral Officer in Karnataka is publishing draft electoral rolls following an intensive enumeration process.

Bengaluru and across Karnataka state electoral authorities identified non-traceable voters under administrative revision procedures.

Over 1.07 crore voters, constituting 19.48 percent of the state electorate, face deletion under the ASDDO classification framework.

Bengaluru urban electorate alone shrinks from over 1.03 crore registered voters down to 56.11 lakh in draft rolls.

Highlights administrative challenges in maintaining pure voter lists while safeguarding constitutional voting rights against improper disenfranchisement.



STORY 2 **The Hindu**

Telangana auto drivers call off indefinite strike following welfare board assurance

Auto driver unions in Telangana cancelled a planned statewide indefinite strike after successful government level negotiations.

Transport Minister Ponnampati Prabhakar met leaders of the Joint Action Committee representing auto, cab, and van drivers in Hyderabad.

The state government agreed to constitute a dedicated welfare board and consider fare revision demands raised in a 14-point charter.

The agreement resolved immediate transit disruption threats across major urban centers following assurances on financial security.

Illustrates state intervention mechanisms to formalize social safety nets for unorganized transport sector workers under state governance.

UPSC RELEVANCE

Examines the systemic mechanics of electoral roll purity during intensive revisions alongside state welfare mechanisms designed for informal transportation workers.

PRELIMS FACTS

- Special Intensive Revision (SIR) categorizes non-verifiable voters under the ASDDO (Absent, Shifted, Duplicate, Dead, and Others) list.
- State-level welfare boards for motor transport workers operate under statutory frameworks governing unorganized sector social security.
- Draft electoral rolls published during intensive revisions allow a specific window for public claims, objections, and voter re-verification.

MAINS FRAMEWORK

Intro: Clean electoral rolls and social security safety nets for informal workers constitute twin pillars of robust democratic governance and social justice in modern states.

DIMENSIONS

- Electoral integrity risks arising from mass voter exclusions without adequate field verification during intensive roll purges.
- Socio-economic vulnerability of gig and informal transport workers operating without formal welfare boards or regulated tariff structures.
- Administrative coordination challenges between state transport authorities, election commissions, and civic worker unions.

Way forward: Implement multi-stage ground verification before voter deletion and establish sustainable fund-matching mechanisms for dedicated worker welfare boards.

PYQ LINK

Examines the role of the Election Commission of India in ensuring free and fair elections and administrative measures for informal sector welfare.

KEY TERMS

Special Intensive Revision

Electoral Roll Purity

Informal Sector Welfare Board

ASDDO Elector Category

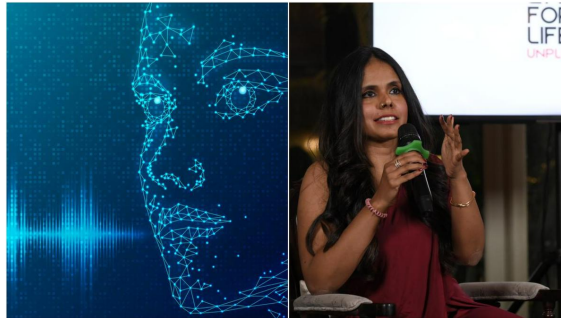
Unorganised Workers Social Security

ACTS & ARTICLES

02

GS PAPER III - SCIENCE & TECHNOLOGY & CYBER SECURITY

AI-Generated Deepfakes, Cyber Security, and Post-Quantum Cryptography

STORY 1 **The Hindu**

Rise in AI digital undressing tools sparks calls for stricter technology regulation

Generative artificial intelligence tools are increasingly utilized to create non-consensual explicit deepfakes using photos scraped from public profiles.

Incidents reported across public transport networks in India highlight the growing misuse of mobile software against women.

Prominent authors and activists emphasize that algorithmic exploitation strips women of digital agency and fundamental bodily autonomy.

Current social media reporting mechanisms and law enforcement responses remain largely inadequate to curb rapid viral proliferation.

Underscores the urgent need for stringent legal frameworks addressing AI-assisted image manipulation and tech-facilitated gender violence.

POSSIBLE
ECH
ITUTE



Financial consortium launches cross-regional pilot testing post-quantum cryptographic security

Responsible Fintech Institute and tech partner Safeheron launched a cross-regional pilot to evaluate post-quantum security in financial networks.

Global banking institutions and financial regulatory stakeholders across multiple jurisdictions joined the research initiative in Singapore.

The pilot tests multi-party computation protocols utilizing the NIST-standardized ML-DSA-65 post-quantum cryptography algorithm for wallet security.

The initiative seeks to open-source quantum-resilient infrastructure for institutional digital asset transfers before commercial quantum computing arrives.

Demonstrates proactive cybersecurity modernization required to protect financial systems against future quantum decryption threats.

UPSC RELEVANCE

Analyzes legal and technological countermeasures against AI-driven non-consensual deepfakes alongside emerging post-quantum cryptographic standards for financial security.

PRELIMS FACTS

- Post-quantum cryptography (PQC) algorithms such as ML-DSA-65 are designed to withstand attacks by future fault-tolerant quantum computers.
- Multi-party computation (MPC) protocols allow distributed digital asset signatures without exposing private cryptographic keys.
- Deepfake technology leverages generative adversarial networks (GANs) to alter media assets from public digital footprints.

MAINS FRAMEWORK

Intro: The rapid advancement of artificial intelligence and quantum computing creates severe dual challenges for technological ethics, individual privacy, and financial system resilience.

DIMENSIONS

- Infringement of bodily autonomy and dignity through AI-driven non-consensual image manipulation targeting women.
- Vulnerability of current public-key encryption infrastructure to future quantum decryption capabilities in banking.
- Regulatory gaps in platform accountability and digital enforcement across national and cross-border jurisdictions.

Way forward: Enact strict statutory criminal penalties for non-consensual AI manipulation and accelerate systemic adoption of post-quantum standards across critical infrastructure.

Discusses cyber security threats, data privacy concerns, and the regulatory challenges posed by artificial intelligence and advanced cryptography.

KEY TERMS

Post-Quantum Cryptography

Non-Consensual Deepfakes

Multi-Party Computation

ML-DSA-65 Algorithm

Bodily Autonomy in Cyberspace

ACTS & ARTICLES

Information Technology Act, 2000

Digital Personal Data Protection Act, 2023

Article 21

03

GS PAPER II & III - INTERNATIONAL RELATIONS & CYBER SECURITY

Geopolitics, Nuclear Diplomacy, and Cyber Threats to Critical Energy Infrastructure



STORY 1 **The Hindu**

Iranian President defends US agreement framework while security chief warns neighboring states

Iranian President Masoud Pezeshkian defended a draft memorandum of understanding with the United States to resolve regional war hostilities.

Pezeshkian publicly stated in Dubai that the agreement does not constitute capitulation despite severe economic pressures facing Tehran.

Iran's security chief simultaneously warned neighboring countries against assisting prospective new American sanctions against Iranian trade.

Tensions remain elevated across West Asia as economic strain mounts alongside localized military exchanges in Gaza and West Bank.

Highlights complex diplomatic balancing required to de-escalate Middle Eastern conflicts affecting global maritime trade routes.



STORY 2 **Times of India**

Cyberattack linked to Iranian hackers temporarily disables British power generation facility

Hackers associated with state actors allegedly shut down a small British energy generation site for four days.

The cyber intrusion targeted a gas-fired auxiliary power plant in the United Kingdom without causing widespread national grid outages.

UK Energy Minister Michael Shanks confirmed the site was small, but security agencies treated the operational disruption as serious.

Security experts suspect the attack served as a proof-of-capability demonstration against distributed critical national energy infrastructure.

Underscores expanding vulnerabilities in decentralized power grids facing sophisticated foreign state-sponsored cyber threats.

UPSC RELEVANCE

Examines diplomatic negotiations surrounding regional conflicts alongside state-sponsored cyber threats targeting critical national energy infrastructure.

PRELIMS FACTS

- Critical Information Infrastructure (CII) includes assets whose incapacitation severely impacts national security or economic stability.
- Gas-fired peak load generators provide vital grid stability during sudden fluctuations in power demand.
- Diplomatic Memorandums of Understanding (MoUs) serve as non-binding international frameworks to establish preliminary terms between nations.

MAINS FRAMEWORK

Intro: Escalating geopolitical friction in West Asia increasingly intersects with cyber warfare, posing severe risks to global economic stability and energy security.

DIMENSIONS

- Diplomatic bargaining frameworks between Western powers and regional actors to de-escalate military and economic standoff.
- Vulnerability of small-scale distributed energy generation assets to targeted external state-sponsored cyber intrusions.

- Collateral impacts on global maritime routes, energy supply chains, and inflation in import-dependent developing nations.

Way forward: Strengthen air-gapped protection for grid utilities while pursuing multilateral diplomacy to enforce rules against targeting civilian infrastructure.

PYQ LINK

Analyzes the impacts of Middle East conflicts on global energy security and evaluates strategies to defend critical infrastructure against cyberattacks.

KEY TERMS

Critical Information Infrastructure

Straits of Hormuz Security

Asymmetric Cyber Warfare

Economic Sanctions Diplomacy

Industrial Control System Hacking

ACTS & ARTICLES

Information Technology Act, 2000 (Section 70)

UN Charter Article 2(4)

National Cyber Security Policy

04

GS PAPER III - ENVIRONMENT & ECOLOGY

Ecological Rewilding and Invasive Species Eradication Strategies



STORY 1 Times of India

Invasive rat eradication on Hawadax Island triggers massive native bird recovery

Conservation authorities successfully eradicated non-native rats from 6,869-acre Hawadax Island in the Aleutian archipelago.

US Fish and Wildlife Service monitored ecological changes following the removal of invasive rodents introduced by an 18th-century shipwreck.

Native bird populations increased by 200 percent or more within two years, while missing seabird species returned to nest.

The island environment suffered for over two centuries before rodent extermination allowed ground-nesting avifauna to recover natively.

Demonstrates the transformative ecological benefits of targeted invasive species eradication on vulnerable island biomes.



STORY 2 **Times of India**

Two-decade rewilding project in Scottish Highlands restores native pine forests and red squirrels

Conservationist Paul Lister transformed the 23,000-acre Alladale estate into a major ecological rewilding reserve over 23 years.

Located in Sutherland in the Scottish Highlands, the property was previously degraded by centuries of intense deer overgrazing.

Over one million native trees were planted across glens, enabling the successful reintroduction of native red squirrels.

The project replaced traditional hunting activities with eco-tourism revenue to fund continuous habitat regeneration and ecological monitoring.

Serves as a model for landscape-scale private land restoration and native habitat connectivity.

UPSC RELEVANCE

Evaluates ecosystem recovery models through invasive fauna eradication and long-term rewilding of degraded biomes.

PRELIMS FACTS

- Hawadax Island (formerly Rat Island) in the Aleutian archipelago achieved invasive rodent eradication after two centuries of infestation.
- Island ecosystems are exceptionally vulnerable to alien predators, which decimate ground-nesting seabird populations.
- Rewilding emphasizes natural process recovery by reintroducing keystone fauna and native climax forest species.

MAINS FRAMEWORK

Intro: Invasive species and land degradation represent severe drivers of global biodiversity loss, making ecological restoration crucial for planetary resilience.

DIMENSIONS

- Rapid biodiversity bounce-back achievable on isolated island sanctuaries following complete eradication of non-native predators.
- Role of private land stewardship and long-term afforestation in reversing centuries of overgrazing and soil erosion.
- Socio-economic integration of eco-tourism with ecological conservation to sustain multi-decade rewilding operations.

Way forward: Combine rigorous biosecurity protocols for fragile island biomes with community-supported native ecosystem regeneration programs globally.

PYQ LINK

Discusses the impacts of invasive alien species on native fauna and evaluates sustainable rewilding models for habitat restoration.

KEY TERMS

Ecological Rewilding

Invasive Alien Species Eradication

Trophic Cascade Recovery

Island Ecosystem Restoration

Native Biodiversity Afforestation

ACTS & ARTICLES

Biological Diversity Act, 2002

UN Convention on Biological Diversity (Kunming-Montreal Framework)

Article 48A

05

GS PAPER III - CLIMATE CHANGE & ENVIRONMENTAL CONSERVATION

Urban Heat Mitigation, Artificial Reefs, and Biological Dune Restoration



STORY 1 Times of India

Phoenix reflective road coating lowers asphalt temperatures but increases pedestrian heat exposure

The City of Phoenix coated 36 miles of roads with CoolSeal asphalt treatment to counter severe urban heat island effects.

Arizona State University researchers monitored heat dynamics across treated neighborhood streets over a full one-year trial period.

The cool pavement lowered road surface temperatures by 12°F at noon, but reflected radiation increased pedestrian heat exposure by 5.5°F.

Traditional dark asphalt absorbs intense sunlight reaching 180°F, whereas reflective coatings keep radiation suspended in the pedestrian zone.

Highlights complex microclimatic engineering trade-offs required when designing climate adaptation measures for desert urban centers.



STORY 2 **Times of India**

Florida expands artificial reef project using eco-friendly concrete sculptures for marine restoration

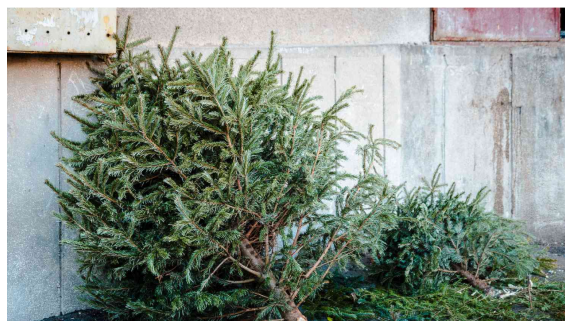
Ocean Rescue Alliance International expanded its coastal marine restoration initiative off the coast of South Florida.

More than 300 sculpted reef modules weighing up to 5,500 pounds were submerged across seafloors in Palm Beach and Broward counties.

Structures are built from pH-neutral, ocean-friendly concrete designed with specific crevices to foster marine habitat growth.

The project integrates public underwater art with biological habitat creation to restore degraded natural coral reef systems.

Demonstrates effective application of engineered artificial structures to accelerate marine biodiversity recovery.



Alabama student campaign uses recycled Christmas trees to trap sand and restore coastal dunes

- High school students in Gulf Shores, Alabama, lead an annual coastal dune restoration project using discarded holiday trees.
- Around 200 student volunteers collect discarded trees annually and deploy them along public Gulf of Mexico beaches.
- Volunteers anchor the trees to trap windblown sand while planting roughly 3,000 native coastal plants to bind emerging dunes.
- Initiated in 2021, the community project provides a low-cost, natural barrier against storm surges and coastal erosion.
- Serves as an effective model for youth-led nature-based solutions in coastal disaster risk reduction.

UPSC RELEVANCE

Examines civil engineering and nature-based solutions for urban heat islands, marine habitat degradation, and coastal erosion.

PRELIMS FACTS

- CoolSeal reflective pavement coatings reduce asphalt surface heat but can reflect solar radiation, raising pedestrian thermal exposure.
- Artificial reef modules constructed from pH-neutral concrete support marine organism colonization without altering ocean chemistry.
- Trapping windblown sand around biodegradable organic structures accelerates sand dune formation and coastal stabilization.

MAINS FRAMEWORK

Intro: Innovative urban engineering and nature-based coastal interventions are essential to safeguard human populations and biomes against accelerating climate impacts.

DIMENSIONS

- Trade-offs in reflective pavement technology between asphalt cooling and increased radiant heat load on urban pedestrians.
- Deployment of environmentally neutral artificial structures to accelerate coral recruitment and marine ecosystem recovery.
- Community-driven coastal engineering utilizing recycled natural materials to prevent coastal erosion and storm surge damage.

Way forward: Integrate shade canopy planning with reflective coatings in cities while scaling up community-led marine and coastal habitat restoration.

Evaluates nature-based solutions and urban planning interventions to combat microclimate heat risks and coastal ecosystem degradation.

KEY TERMS

Urban Heat Island Effect

Cool Pavement Reflectivity

Artificial Reef Modules

Coastal Sand Dune Stabilization

Nature-Based Climate Solutions

ACTS & ARTICLES

Coastal Regulation Zone (CRZ) Notification

National Action Plan on Climate Change (NAPCC)

Article 51A(g)

06

GS PAPER II - GOVERNANCE, FUNDAMENTAL RIGHTS & HUMAN RIGHTS

Police Accountability, Fundamental Rights, and Public Protest Management



STORY 1 **The Hindu**

Amnesty report alleges excessive police force during Delhi student demonstrations

Amnesty International issued a report alleging security forces used excessive force against youth-led student protests in New Delhi.

Rights group documented the deployment of pellet shotguns, tear gas, and electric shock devices during protests over exam paper leaks.

The report controverts police claims that force was deployed exclusively after demonstrators initiated violent marches toward Parliament.

The findings follow the Supreme Court setting up an independent investigation panel to evaluate conduct by both police and protesters.

Highlights constitutional challenges regarding democratic rights of peaceful assembly and non-lethal crowd control management.

UPSC RELEVANCE

Examines constitutional standards governing assembly, police use of force during civil protests, and independent judicial oversight.

PRELIMS FACTS

- Article 19(1)(b) guarantees the right to assemble peaceably and without arms, subject to reasonable restrictions under Article 19(3).
- The Supreme Court can set up independent inquiry panels under Article 142 to investigate allegations of police excess.
- International human rights standards mandate that weapon force during civil crowd control must satisfy strict necessity and proportionality tests.

MAINS FRAMEWORK

Intro: Maintaining public order while respecting fundamental rights during civil protests represents a crucial test for democratic policing and rule of law.

DIMENSIONS

- Excessive state crowd control measures violating constitutional guarantees of peaceful protest and bodily integrity.
- Role of independent judicial commissions in establishing accountability for both demonstrator violence and police overreach.
- Need for standardized non-lethal crowd management protocols aligned with international human rights norms.

Way forward: Mandate body-worn cameras for riot police, adopt de-escalation protocols, and establish independent police oversight authorities at state levels.

PYQ LINK

Examines the balance between public order maintenance and the constitutional rights to freedom of speech and peaceful assembly under Article 19.

KEY TERMS

Proportionality Principle

Freedom of Peaceful Assembly

Judicial Oversight Panel

Human Rights Compliance

Crowd Control Dynamics

ACTS & ARTICLES

Article 19(1)(a) & (b)

Article 21

Code of Criminal Procedure, 1973 (Section 129)

Prakash Singh Guidelines

07

GS PAPER III - PUBLIC HEALTH & DISASTER MANAGEMENT

Public Health Disease Surveillance and Disaster Management Resilience



STORY 1 **The Hindu**

ICMR confirms circulating H1N1 influenza strain matches known variant; existing vaccines remain effective

The Indian Council of Medical Research issued a public health clarification regarding Influenza A (H1N1) viruses in India.

ICMR surveillance confirmed circulating viruses belong to the A/Missouri/11/2025 (H1N1) pdm09-like virus strain family.

Health authorities emphasized that no novel mutant H1N1 strain has emerged in the country.

Current seasonal influenza vaccines in circulation provide adequate protection against the tracked viral strain.

Reaffirms the importance of continuous genomic disease surveillance in preventing public health panic and guiding immunization strategies.



STORY 2 **The Hindu**

Fast-moving Hawk Fire forces state of emergency and mass evacuations in Reno Nevada

A rapid human-caused wildfire spread across Peavine Peak in Humboldt-Toiyabe National Forest near Reno, Nevada.

Emergency management officials declared a state of emergency as shifting winds drove flames across more than 60 square kilometers.

Authorities issued GO NOW emergency evacuation orders affecting approximately 90,000 residents in residential and commercial zones.

The blaze destroyed multiple structures, jumped over fire apparatus, and injured six people including three first responders.

Underlines rising disaster management challenges posed by urban-wildland interface fires driven by shifting wind conditions.

UPSC RELEVANCE

Focuses on genomic disease surveillance, strain stability, and emergency coordination during extreme climate and wildfire disasters.

PRELIMS FACTS

- ICMR confirmed circulating Indian H1N1 influenza belongs to the A/Missouri/11/2025 (H1N1) pdm09-like strain.
- Existing seasonal influenza vaccines retain cross-protective efficacy against currently identified circulating H1N1 variants.
- Fast-moving wildfires require early GO NOW evacuation orders due to rapid wind-driven flame propagation.

MAINS FRAMEWORK

Intro: Robust epidemiological surveillance networks and agile disaster emergency frameworks are critical to protect public health and safety during compound crises.

DIMENSIONS

- Continuous genomic tracking to confirm strain stability and ensure existing vaccine stockpiles remain effective.
- Operational challenges in executing mass emergency evacuations amid erratic, wind-driven wildfire threats in urban-wildland interfaces.
- Inter-agency coordination between health research institutes, disaster management authorities, and local first responders.

Way forward: Strengthen national laboratory genomic networks while modernizing wildland fire prediction models and community evacuation protocols.

PYQ LINK

Discusses India's public health preparedness against viral epidemic outbreaks and the institutional mechanisms under the Disaster Management Act, 2005.

KEY TERMS

Genomic Disease Surveillance

H1N1 Influenza Pandemic Strain

Wildfire Disaster Management

Emergency Evacuation Zone

Public Health Resilience

ACTS & ARTICLES

Epidemic Diseases Act, 1897

Disaster Management Act, 2005

Article 47

Practice MCQs (UPSC Prelims)

Attempt these questions on your own first. The answer key is on the next page.

GS PAPER II - GOVERNANCE

Electoral Revision Integrity and Welfare Board Governance for Informal Sector Workers

Karnataka Special Intensive Revision draft rolls exclude over 1.07 crore voters

Q1. Regarding electoral roll revisions in India, consider the following statements: 1. The Special Intensive Revision (SIR) process utilizes house-to-house enumeration to verify voter credentials. 2. Voters categorized under the ASDDO list are automatically permanently barred from future electoral registration. 3. The final authority to publish electoral rolls in a state rests with the Chief Electoral Officer under supervision of the Election Commission of India. Which of the statements given above is/are correct?

- A. 1 and 2 only
- B. 1 and 3 only
- C. 2 and 3 only
- D. 1, 2 and 3

GS PAPER III - SCIENCE & TECHNOLOGY

AI-Generated Deepfakes, Cyber Security, and Post-Quantum Cryptography

Financial consortium launches cross-regional pilot testing post-quantum cryptographic security

Q2. Consider the following statements regarding Post-Quantum Cryptography (PQC): 1. PQC algorithms are designed to secure digital infrastructure against potential decryption attacks by quantum computers. 2. ML-DSA-65 is a post-quantum digital signature algorithm standardized by international standards bodies. 3. Multi-party computation (MPC) protocols require private keys to be completely assembled on a single central server during transaction signing. Which of the statements given above are correct?

- A. 1 and 2 only
- B. 2 and 3 only
- C. 1 and 3 only
- D. 1, 2 and 3

GS PAPER III - CYBER SECURITY

Geopolitics, Nuclear Diplomacy, and Cyber Threats to Critical Energy Infrastructure

Cyberattack linked to Iranian hackers temporarily disables British power generation facility

Q3. Which of the following best describes the security risk associated with distributed small-scale energy generators connected to a national power grid?

- A. They operate entirely air-gapped without any remote industrial control connections.
- B. They are immune to cyber intrusion because they only operate during peak load hours.
- C. They can serve as entry points for state-sponsored cyber intrusions seeking to test
- D. They automatically shut down the entire national high-voltage transmission grid upon detecting

GS PAPER III - ENVIRONMENT & ECOLOGY**Ecological Rewilding and Invasive Species Eradication Strategies**

Invasive rat eradication on Hawadax Island triggers massive native bird recovery

Q4. With reference to island ecosystem conservation, consider the following statements: 1. Island avifauna are particularly vulnerable to invasive rodents because many native species are ground-nesting. 2. Complete removal of non-native alien predators can lead to rapid recovery of native seabird breeding populations. 3. Hawadax Island is situated in the Indian Ocean marine protected zone. Which of the statements given above is/are correct?

- A.** 1 only
- B.** 1 and 2 only
- C.** 2 and 3 only
- D.** 1, 2 and 3

GS PAPER III - CLIMATE CHANGE**Urban Heat Mitigation, Artificial Reefs, and Biological Dune Restoration**

Phoenix reflective road coating lowers asphalt temperatures but increases pedestrian heat exposure

Q5. In the context of urban heat island mitigation, what is the primary trade-off observed when applying highly reflective 'cool pavement' coatings to asphalt streets?

- A.** It increases asphalt surface temperature while lowering surrounding air temperature.
- B.** It lowers asphalt surface temperature but reflects solar radiation upward, increasing thermal exposure for pedestrians.
- C.** It causes immediate degradation of underlying road concrete structures due to chemical neutralisation.
- D.** It absorbs all ultraviolet radiation and converts it into ambient humidity.

GS PAPER III - SCIENCE & TECHNOLOGY**Public Health Disease Surveillance and Disaster Management Resilience**

ICMR confirms circulating H1N1 influenza strain matches known variant; existing vaccines remain effective

Q6. Regarding Influenza A (H1N1) surveillance in India, consider the following statements: 1. The Indian Council of Medical Research (ICMR) conducts genomic tracking to monitor circulating viral strains. 2. Identifying a circulating virus as a pdm09-like strain indicates the complete failure of existing seasonal flu vaccines. 3. Continuous strain monitoring is crucial to determine whether vaccine formulations require updating. Which of the statements given above are correct?

- A.** 1 and 2 only
- B.** 1 and 3 only
- C.** 2 and 3 only
- D.** 1, 2 and 3

Answer Key — Practice MCQs

Quick reference and explanations for the practice questions on the previous page.

Q1: B

Q2: A

Q3: C

Q4: B

Q5: B

Q6: B

Q1 Option B · 1 and 3 only

Statements 1 and 3 are correct. Special Intensive Revision involves enumeration phase verification, and draft rolls are published by the Chief Electoral Officer's office. Statement 2 is incorrect because voters listed under ASDDO (Absent, Shifted, Duplicate, Dead, Others) during draft roll publication have a window to file claims and objections to re-verify their status before final publication.

Q2 Option A · 1 and 2 only

Statements 1 and 2 are correct. PQC algorithms like ML-DSA-65 protect against quantum decryption threats. Statement 3 is incorrect because multi-party computation protocols specifically distribute key secret shares among multiple parties so that private keys are never assembled on a single server, preventing single-point vulnerability.

Q3

Option C · They can serve as entry points for state-sponsored cyber intrusions seeking to test infrastructure penetration capabilities.

Small-scale distributed generators connected to the power grid often feature industrial control systems that can be targeted by cyber adversaries as a proof-of-capability demonstration or entry point, even if they do not immediately disrupt the national transmission grid.

Q4 Option B · 1 and 2 only

Statements 1 and 2 are correct. Ground-nesting native seabirds suffer heavily from non-native rodents, and eradicating alien predators yields swift population recovery. Statement 3 is incorrect because Hawadax Island is located in the Aleutian archipelago in Alaska, not the Indian Ocean.

Q5

Option B · It lowers asphalt surface temperature but reflects solar radiation upward, increasing thermal exposure for pedestrians.

As demonstrated in urban heat trials in Phoenix, reflective pavement coatings successfully lower the physical asphalt surface temperature, but the reflected solar radiation increases radiant heat exposure for pedestrians walking along the street.

Q6 Option B · 1 and 3 only

Statements 1 and 3 are correct. ICMR tracks viral strains to inform public health responses and vaccine effectiveness. Statement 2 is incorrect because the ICMR confirmed that circulating pdm09-like strains are well-matched by existing seasonal vaccines, which remain effective.