

## Weekly Quiz Answers (14<sup>th</sup>-20<sup>th</sup> Jan)

Ans1. C

**Context:** Recently, in a jallikattu event, two individuals, including a minor boy, met a tragic end after being gored to death.

Jallikattu	
<b>About</b>	The term "Jallikattu" is a combination of 'Calli' (coins) and 'Kattu' (tie), symbolizing a bundle of coins tied to a bull's horns.
<b>Ancient Tradition</b>	<ul style="list-style-type: none"> <li>Jallikattu, a competitive bull-taming sport in Tamil Nadu, has a history spanning 2,000 years.</li> <li>Participants attempt to tame a bull for a prize, with failure leading to the bull owner claiming the reward.</li> </ul>
<b>Cattle Breeds for Jallikattu</b>	<ul style="list-style-type: none"> <li>Native cattle breeds like Kangayam, Pulikulam, Umbalachery, Bargur, and Malai Maadu are specifically raised for Jallikattu, showcasing diversity in participants.</li> </ul>
<b>Historical References</b>	<ul style="list-style-type: none"> <li>The origins of Jallikattu trace back to a Mohenjodaro seal from 2,500 BC to 1,800 BC, known as Eru Thazuval, meaning "embracing the bull."</li> <li>Mentioned in Silappadikaram, a significant Tamil epic from the Sangam age.</li> </ul>

### Controversy over Jallikattu

- HC Verdict:** In 2006, a Madras High Court ruling prohibited events like rekla race and jallikattu, citing safety concerns.
- Tamil Nadu Regulation of Jallikattu Act (2009):** Enacted in 2009, this act aimed to introduce regulations and safety measures for conducting jallikattu.
- Jallikattu and Mass Agitations in Tamil Nadu**
  - Supreme Court's ban on jallikattu and similar sports involving animals in Tamil Nadu led to mass agitations.
  - The ban was based on the Prevention of Cruelty to Animals (PCA) Act, 1960, highlighted in the Welfare Board of India vs A. Nagaraja (2014) case.

Ans2. B

**Explanation:**

### What are Classical Languages?

<b>About</b>	<ul style="list-style-type: none"> <li>Created in 2004 as a category of languages in India.</li> <li>Criteria for classical language status laid down in 2006; six languages granted status so far.</li> </ul>
<b>Criteria</b>	<ul style="list-style-type: none"> <li>High antiquity spanning 1,500–2,000 years.</li> <li>Possession of valuable ancient literature.</li> <li>Presence of an original literary tradition.</li> <li>Distinctness from modern forms.</li> </ul>
<b>Benefits</b>	<ul style="list-style-type: none"> <li>Financial assistance for establishing a center of excellence.</li> <li>Opens avenues for awards and UGC to create chairs for scholars.</li> </ul>

Ans3. C

**Explanation:**

**Integrated Development of Wildlife Habitats:** GIB is included in the species recovery program under the Integrated Development of Wildlife Habitats by the Ministry of Environment, Forests, and Climate Change (MoEFCC).

Ans4. B

**Explanation:**

**ICJ's Role and Significance**

- Hears cases related to war crimes, illegal state interference, ethnic cleansing, etc.
- Settles legal disputes between states, gives advisory opinions to the UN and specialized agencies.
- Rules only on cases involving nations, not individuals or private entities.
- The court's judgments are final and binding, but enforcement depends on states' compliance.

**Concerns About ICJ**

- Non-compliance issues as enforcement lies with the UN Security Council (UNSC).
- Non-participation of powerful states like Russia and the US in certain cases.
- Lengthy procedures, as seen in past cases like Bosnia-Serbia.

Ans5. C

**Explanation:**

**Significance**

Aims to improve operational efficiency and enhance security by allowing faster processing of passengers and preventing boarding pass exchanges.

**About Digi Yatra Foundation**

- Not-for-profit organization founded to implement the Digital Yatra Central Ecosystem.
- Shareholders include Airport Authority of India (AAI), Cochin International Airport (CIAL), Bangalore International Airport (BIAL), Delhi International Airport Ltd. (DIAL), Hyderabad International Airport Ltd (HIAL), and Mumbai International Airport Ltd (MIAL).
- Objective is the rollout of the "Digi Yatra" system with a digital ID backed by verifiable government-issued identities like Aadhaar, passport, and others.

Ans6. D

**Explanation:**

**10th Schedule of Constitution**

<b>About</b>	<ul style="list-style-type: none"> <li>○ The Tenth Schedule was introduced in response to political instability caused by defections during the 1960s and 70s.</li> <li>○ Defections led to the downfall of elected governments.</li> </ul>
<b>Objective</b>	<ul style="list-style-type: none"> <li>○ The 52nd constitutional amendment in 1985 introduced the Tenth Schedule.</li> <li>○ Aims to ensure stability in elected governments through an 'anti-defection' law.</li> </ul>
<b>Provisions</b>	<ul style="list-style-type: none"> <li>○ Members abandoning their party or voting against party instructions face disqualification.</li> </ul>

	<ul style="list-style-type: none"> <li>○ Party instructions issued by the 'whip' appointed by the 'political party.'</li> </ul>
<b>Distinction Between Political and Legislature Party</b>	<ul style="list-style-type: none"> <li>○ 'Political party' includes the entire organization, while 'legislature party' comprises party members in a Parliament or State legislature.</li> </ul>
<b>Original Tenth Schedule</b>	<ul style="list-style-type: none"> <li>○ Two exceptions to disqualification: one-third members splitting to form a separate group and party merger approved by two-thirds of its 'legislature party.'</li> <li>○ Para 3 omitted in 2003.</li> </ul>

Ans7. C

**Explanation:**

**Conservation Breeding Facility:** A conservation breeding facility was established in the Desert National Park at Jaisalmer in June 2019 through collaboration between MoEF&CC, Rajasthan government, and the Wildlife Institute of India (WII).

Ans8. A

**Explanation:**

<b>Green Fuels Alliance India (GFAI)</b>	
<b>Definition</b>	Strategic collaboration between India and Denmark in the sustainable energy sector, led by the Consulate General of Denmark and the Embassy of Denmark.
<b>Aim</b>	Foster innovation, collaboration, and partnerships between Danish and Indian industries, specifically focusing on the green fuels sector, including green hydrogen.
<b>Objectives</b>	Promote sustainable energy growth in India through an ecosystem fostering collaboration among businesses, government entities, research institutions, and financial stakeholders.
<b>Members</b>	<ul style="list-style-type: none"> <li>○ Founding members include Maersk, Topsoe, Umwelt Energy, Mash Makes, European Sustainable Solutions, Novozymes, Danfoss, Brdr. Christensen, and Hydrogen Denmark.</li> <li>○ Advisory Board members include India Hydrogen Alliance, Energy Consortium at the Indian Institute of Technology-Madras, Danish Energy Agency, and State of Green.</li> </ul>
<b>Key Features</b>	<ul style="list-style-type: none"> <li>○ Steering Committee, led by Danish businesses and coordinated by the Secretariat at the Danish Consulate, Bangalore.</li> <li>○ Advisory Board comprising industry experts to ensure initiatives align with industry requirements and trends.</li> <li>○ Collaborative initiatives inspired by existing programs like the India-Denmark Energy Partnership and joint R&amp;D efforts on Green Fuels.</li> </ul>

Ans. 9 C

**Explanation:**

**About Quantum Gates**

Quantum gates are physical processes or circuits altering the state of qubits or groups of qubits. Electromagnetic pulses often serve as gates when particles or superconducting qubits are the physical qubits.

- **Operations and Quantum Circuits**
  - They perform operations on qubits, enabling the creation of quantum circuits for intricate calculations.
  - Quantum algorithms, like those using Hadamard gates and CNOT gates, can be implemented through these operations.
  - Unlike classical bits, qubits can exist in superpositions of 0 and 1 simultaneously.
- **CNOT Gate**
  - Acts on two qubits: a control qubit and a target qubit.
  - Control qubit remains unaffected, while the target qubit flips if the control qubit is in the state of 1.
- **Comparison with Classical Bits**
  - In classical computing, bits can only be in a state of 0 or 1, whereas qubits exhibit superposition.
- **Challenges with Transistors**
  - Traditional computers use semiconductor transistors, but they become unreliable for computational tasks as they get smaller.
  - Quantum effects become more pronounced in smaller transistors.
- **Privacy Concerns and Superposition**
  - Superposition accelerates quantum computers but is fragile, degrading when qubits interact with the environment.
  - Privacy concerns arise due to uncertainties in data protection.

Ans. 10 A

**Explanation:**

World Bank-sponsored Disease Control Priorities Network (DCPN) identifies emergency and essential surgical care as cost-effective.

Ans 11. B

**Explanation:**

**National Multidimensional Poverty Index**

The National Multidimensional Poverty Index measures deprivations in Health, Education, and Standard of Living using 12 Sustainable Development Goals-aligned indicators.

- Indicators include

Nutrition	Child and Adolescent mortality	Maternal Health	Years of schooling	School Attendance	Cooking fuel
Sanitation	Drinking water	Electricity	Housing	Assets	Bank Accounts

- Based on the Alkire and Foster method, it offers a perspective beyond monetary poverty measures, covering two more indicators than the global MPI.

Ans 12. A

**Explanation:**

- NITI Aayog, replacing the Planning Commission, was established on January 1, 2015, with a 'Bottom-Up' approach and a focus on 'Cooperative Federalism.'
- It comprises two hubs: Team India Hub acts as an interface between States and the Centre, and the Knowledge and Innovation Hub builds the think-tank acumen of NITI Aayog.

NITI Aayog	Planning Commission
It serves as an advisory Think Tank.	It served as extra-constitutional body.
It draws membership from a wider expertise.	It had limited expertise.
It serves in spirit of Cooperative Federalism as states are equal partners.	States participated as spectators in annual plan meetings.
Secretaries to be known as CEO appointed by Prime- Minister. Recently, Parmeswaran Iyer became the CEO of NITI Aayog.	Secretaries were appointed through usual process.
It focuses upon 'Bottom-Up' approach of Planning.	It followed a 'Top-Down' approach.
It does not possess mandate to impose policies.	Imposed policies on states and tied allocation of funds with projects it approved.
It does not have powers to allocate funds, which are vested in Finance Minister.	It had powers to allocate funds to ministries and state governments.

Ans 13. D

**Explanation:**

Vadnagar is characterized as a multicultural and multireligious settlement incorporating Buddhist, Hindu, Jain, and Islamic influences.

Ans 14. C

**Explanation:**

**What is Gangasagar Mela?**

- Takes place during mid-January at Sagar Island, confluence of the Ganges and Bay of Bengal.
- India's second-largest pilgrimage gathering after Kumbh Mela.
- Commemorates King Bhagirath's descent of the Ganges to Earth.
- Gangasagar Mela faces challenges due to rising sea levels and beach erosion, despite efforts to counter erosion.

**Other Major Melas in India**

**Kumbh Mela**

- Celebrated every 12 years at four sacred rivers' sites (Allahabad, Haridwar, Ujjain, Nashik).
- Ardha Kumbh Mela held at Haridwar and Allahabad every six years.
- Maha Kumbh held every 144 years.

**Pushkar Mela**

- Annual five-day camel and livestock fair in Pushkar, Rajasthan.
- One of the world's largest cattle fairs.

**Hemis Gompa Fair**

- Annual fair in Ladakh commemorating Guru Padmasambhava's birth anniversary.

Ans 15. D

**Explanation:**

8th Schedule of Indian Constitution lists 22 official languages of India, including Assamese, Bengali, Gujarati, Hindi, Kannada, Kashmiri, Konkani, Malayalam, Manipuri, Marathi, Nepali, Oriya, Punjabi, Sanskrit, Sindhi, Tamil, Telugu, Urdu, Bodo, Santhali, Maithili, and Dogri.