



Date: 30/05/2026

Places in News

Gamgul Siyabehi Wildlife Sanctuary



- **Location:** It is located in the state of **Himachal Pradesh**.
- It is nestled in the catchment of Siul nala (a tributary of **Ravi River**).
- It is adjoined at the northern end by the union territory of **Jammu and Kashmir**.
- The Sanctuary is situated at elevations from 1,800 to 3,900 meters.
 - The famous Kashmir Stag has been reported to be found only in this sanctuary located in Himachal Pradesh.
- **Vegetation:** Western Mixed Coniferous Forests, Moist temperate deciduous forests,

Kharsu Oak forest, Birch/ Rhododendron forests and Alpine pastures.

- **Flora:** The typical high altitude vegetation found here includes deodar forests, coniferous forests and alpine pastures.
- **Fauna:** Asiatic Black Bear (*Ursus thibetanus*), Ibex (*Capra ibex*), Himalayan Tahr (*Hemitragus jemlahicus*), Common Leopard (*Panthera pardus*), Red Fox, Himalayan Tahr, small populations of Musk Deer, and Pheasants. etc.

Banni Grassland



- **Location:** It is located along the northern border of **Kachchh district in the state of Gujarat**.
- The **Kutch Desert Wildlife Sanctuary and Chhari Dhand Conservation Reserve** are part of the Banni Grasslands.
- It is also home to 22 ethnic groups, the majority of whom are pastoralists such as the **Maldharis, the Rabaris, the Jats, the Mutwas, and the Meghwals**.

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- It is home to great biological diversity, having 37 grass species, 275 bird species, and domesticated animals like Buffalo, Sheep, Goat, Horses and Camel, as well as wildlife.
- **Flora:** The vegetation here mainly comprises Prosopis Juliflora, Cressa critica, Cyperus spp, Sporobolus, Dichanthium, and Aristida.
- **Fauna:** It is home to mammals such as the Nilgai, Chinkara, Blackbuck, Wild boar, Golden Jackal, Indian Hare, Indian Wolf, Caracal, Asiatic Wildcat and Desert Fox etc.

Terms in News

Central Industrial Security Force



- It is a Central Armed Police Force (CAPF) in India operating under the **Ministry of Home Affairs**.
- It provides security to various critical infrastructures and important national installations.
- Headquarters: **New Delhi**
- Motto: "Protection and Security".

- The CISF came into existence in 1969 through the **CISF Act 1968**.
- The Act was amended in 1983, declaring the CISF as an Armed Force of the Union

Organization Structure

- It is headed by an Indian Police Service officer with the rank of Director-General, assisted by an IPS officer in the rank of Addl. Director-General.
- The force is divided into **seven sectors** (Airport, North, North-East, East, West, South, and Training) and also has a Fire Service Wing.
- The force consists of seven training institutes – six Recruit Training Centers and the National Industrial Security Academy (NISA).

Functions

- It provides security to India's most **critical infrastructure facilities**, like nuclear installations, space establishments, airports, seaports, power plants, etc.
- In addition, the CISF also protects important government buildings, iconic heritage monuments, Delhi Metro, Parliament House Complex.
- CISF personnel are trained in disaster management techniques, enabling them to actively respond to natural disasters like earthquakes, floods, and cyclones.
- CISF is one of the largest Fire Protection Service providers in the country.
- CISF is the **only force with a customized and dedicated fire wing**.

CLEAR Technology

- **Cleavable Light-Erased Antibody Reporter (CLEAR)** is a novel imaging

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platform that could significantly improve the **visualization and mapping of proteins within biological samples.**

- It was developed by researchers at the **Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR).**
- Researchers from the Indian Institute of Science also collaborated in demonstrating the technology in complex biological settings, particularly immune cell systems.
- CLEAR technology enables scientists to **visualize a large number of proteins within the same biological sample using a single fluorescent marker,** overcoming a major challenge in spatial protein mapping.
- The scientists introduced a light-cleavable probe system that allows repeated cycles of protein labelling and imaging within the same spectral window.
- After imaging a set of proteins, the fluorescent signal can be erased using a gentle pulse of 365 nm LED light, enabling researchers to label and image a new set of proteins in the same cell.
- It allows increasingly detailed protein maps to be generated across specimens ranging from single cells to complex tissue sections.
- Unlike existing multiplex imaging methods, CLEAR combines high multiplexing capability with speed, spatial resolution, and compatibility with delicate biological samples, including live cells.
- The technology has the potential to improve early **disease detection, particularly in cancers and neurological disorders, while also helping researchers better**

understand immune responses and cellular behaviour.

- In the long term, the platform could contribute to precision medicine by enabling detailed molecular analysis that can support targeted therapies and personalized treatment approaches

Sanchi Stupa



- A stupa is a sacred Buddhist monument that **symbolizes the enlightened mind of the Buddha, the path to nirvana, and the universe itself.**
- Originally built as **burial mounds** for the Buddha's relics, stupas have evolved into architectural representations of Buddhist philosophy
- It was built by the **Mauryan emperor Ashoka in the third century BC.**
- It enshrines **religious relics or remains of the Buddha and his most revered disciples.**
- Its construction was overseen by Ashoka's wife Devi.
- The development of the Sanchi complex was supported by patronage from **Vidisha's mercantile community.**

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- It was in abject ruins when it was “discovered” by **British officer Henry Taylor in 1818**.
- Later on **Alexander Cunningham** led the first formal survey and excavations at Sanchi in 1851

Structure of Sanchi Stupa

- It is enclosed by a massive stone railing pierced by four gateways, which are adorned with elaborate carvings (known as Sanchi sculpture).
- The stupa itself consists of a base bearing a hemispherical dome (**anda**), symbolizing the dome of heaven enclosing the earth.
- It is surmounted by a squared rail unit (**harmika**) representing the world mountain, from which rises a mast (**yashti**), symbolizing the cosmic axis.
- The mast bears umbrellas (**chatras**) that represent the various heavens (**devaloka**).

Q3; CLEAR Technology, developed by researchers at the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) shows India’s indigenous research and Innovation capabilities. This technology is best applied in which of the following sectors

- Health Sector
- Defence Sector
- Space Sector
- Energy Sector

Q4; Which of the following Stupa’s were built by Mauryan Emperor Ashoka Himself

- Sanchi Stupa
- Amaravathi Stupa
- Bharhut Stupa
- Chaukhandi Stupa

Q5; Which of the following security forces is not under the administrative control of the Ministry of Home Affairs

- Indo-Tibetan Border Police
- Central Industrial Security Force
- National Security Guard
- Indian Coast Guard

Practice Questions

Q1; Which of the following Protected Area hosts high altitude Vegetation

- Kanha National Park
- Pench National Park
- Pachmarhi Wildlife Sanctuary
- Gangul Siyabehi Wildlife Sanctuary

Q2; The Banni Grassland is Asia's largest tropical grassland. Spanning over 2,600 square kilometers, it is a biodiversity hotspot famous for its unique wildlife, salt-tolerant flora, and the nomadic Maldhari pastoralist community. It is located in which of the following states

- Odisha
- West Bengal
- Gujarat
- Tamil Nadu

Answers

- D
- C
- A
- A
- D

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