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Konark Sun Temple

Question: Consider the following statements:

1. It is located in Puri, Odisha.
2. This temple was built in the 13th century by King Narasimhadeva of the Ganges dynasty.
3. This temple was included in the UNESCO World Heritage List in 1984.

Which of the above statement(s) is/are true?

- (A) 01 and 02 (B) 02 and 03
(C) 01 and 03 (D) All of the above

Answer - (D) All of the above

Role - The Archaeological Survey of India (ASI) has started the process to safely remove the sand inside the Konark Sun Temple.

Exam Useful Points -

- To ensure the stability of the temple, the British had filled sand in the Jaga Mohan (assemble hall) of the Sun Temple a century ago.
- The British drilled a hole in the top of Jaga mohan or poured sand from it.
- Cental Building Research Institute at Roorkee will be assisted in the sand removal process.
- The Konark Sun Temple is located near the holy city of Puri in Odisha.
- The temple was built in the 13th century by King Narasimhadeva of the Ganges.
- The temple is built in the shape of a huge chariot.
- This temple is dedicated to Suryadev.
- It represents the pinnacle of Kalinga architecture.
- It was designated a UNESCO World Heritage Site in 1984.
- Other monuments in Odisha-
 - Lingaraja Temple
 - Jagannath Temple
 - Tara Tarini Temple
 - Udayagiri and Khandagiri Caves

Quantum Laboratory

Question: Consider the following statements:

1. Recently established 'Quantum Laboratory' in Mhow, Madhya Pradesh.
2. It was established in collaboration with the Indian Army and the National Security Council Secretariat (NSCS).
3. Its objective is to sponsor research and training in the field of quantum technology.



Which of the above statement(s) is/are true.

- (A) 01 and 02 (B) 02 and 03
(C) 01 and 03 (D) All of the above

Answer - (D) All of the above

Role - Indian Army recently established Quantum Laboratory at Mhow, Madhya Pradesh which shows its steady and significant progress in the emerging technology domain.

Exam Useful Points -

- The Quantum Laboratory was established with the help of the National Security Council Secretariat (NSCS).
- It was established at Military College of Telecommunication Engineering (MCTE) at Mhow for the purpose of research and training in the major developing area.
- Army has also established an Artificial Intelligence (AI) centre at MCTE by deploying more than 140 in forward areas and with active support from academic and industry.
- It will help to convert the current system of cryptography in the Indian Armed Forces to “Post Quantum Cryptography” (PQC).
- Major areas include Quantum Computing, Quantum Key Distribution, Quantum Communications and Post Quantum Cryptography.

Extreme Cold Weather Clothing System

Question: Consider the following statements:

1. They can be used in high altitude missions under different climatic conditions.
2. It is designed to provide thermal insulation over the temperature range of +15 to -50°C.
3. It was made by DRDO.

Which of the above statement(s) is/are true?

- (A) 01 and 02 (B) 02 and 03
(C) 01 and 03 (D) All of the above

Answer - (D) All of the above

Role - Defence Research and Development Organization (DRDO) handed over the technology for indigenous extreme cold weather clothing system to some Indian companies.

Exam Useful Points -

- ECWCS is an ergonomically designed modular three tier technical clothing system.
- Which can be used in high altitude combat missions under different climatic conditions.



- Designed to provide thermal insulation over a temperature range of +15 to -50°C with a combination of layers and intensity of physical work.
- It embodies physiological concepts related to loss of breath heat and loss of water, unhindered range of molten and rapid absorption of sweat
- Outer item of clothing for camouflage purposes in snow-covered areas as well as in snow-covered areas is reversible.
- The Indian Army used to make emergency of snow special items and mountaineering equipment items for the soldiers stationed in high altitude areas.
- ECWCS is a viable import option for the Indian Army.

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