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The world's largest pass at Umling-La Pass
highest motorable road

Question: Consider the following statements:

1. By constructing this road, the BRO (Border Road Organization) has made a record in the construction of roads located at high altitude.
2. This road is close to the Line of Actual Control (LAC), and will facilitate quick movement of troops and equipment.
3. Under this project, the BRO is responsible for the construction and maintenance of the world's highest motorable roads and related infrastructure.

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:- Recently Border Roads Organization has completed black topping and construction work on motorable road at an altitude of 19,300 feet.

Exam Useful Points:-

- By constructing this road, BRO has established a record in the construction of roads situated at a high altitude.
- Under this project, the entity is responsible for the construction and maintenance of the world's highest motorable roads and related infrastructure.
- Project Himank: It will enhance the socio-economic status and boost tourism in Ladakh.
- The construction of this road is higher than the Mound Everest basecamp, while the height of the North Base Camp in Tibet is 16,900 feet.

- The road has been constructed well above the Siachen Glacier, which is 17,700 feet.
- A road has been broken by the construction of a road at an altitude of 18,953 from the volcano Uturuncu in Bolivia.
- The strategic road built under Project Himank passes through Umling-La Top, and connects the villages of Chisumle and Demchok.
- This project started in the year 1985.

Quit India Movement Anniversary

Question: Consider the following statements:

1. On this day the foundation of Quit India Movement launched by Mahatma Gandhi was laid in 1942.
2. The Quit India Movement was launched on 8 August 1942 at the historic Gowalia Tank Maidan in Mumbai as a harbinger of India's independence.
3. This day is remembered every year on 8 August as the beginning of the last war of independence in Indian history.

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:- Every year on 8 August in India, tribute is paid to the revolutionaries who sacrificed their lives as Revolution Day. Also the teachings given by Father of the Nation Mahatma Gandhi are remembered.

Exam Useful Points:-

- Every year 8 August is remembered as the beginning of the last war of independence in Indian history.
- The Quit India Movement was launched on this day in 1942 at the historic Gowalia Tank Maidan in Mumbai as a harbinger of India's independence.

- The resolution of this movement was passed in the Bombay session of the All India Congress Committee on 8 August.
- 8 August is known as Kranti Diwas since independence, and in Bombay where it was started by hoisting the flag, it was known as Kranti Maidan.
- When the British Company did not fulfill its promise to liberate India even after taking help from India in the Second World War and then called for ending the Cripps Mission (March 1942) and started the Quit India Movement.
- In addition, Gandhi called for do or die in his Quit India speech at the Gowalia Tank Maidan, which inspired thousands of party workers, but also created a frenzy among the English to imprison the Congress leadership.
- At that time Gandhiji was imprisoned in the Aga Khan Palace in Pune and almost all the leaders were arrested.
- In such a situation, youth leader Aruna Asif Ali raised the flag of Quit India Movement by hoisting the Tiranga at Gowalia Tank Ground in Mumbai on 9 August.

Miniature Modular Reactor

Question: Consider the following statements:

1. Due to their modular design and small size, multiple units can be installed on the same site as per the requirement.
2. These are of many types like pressurized water reactor, heavy water reactor, fast breeder reactor etc.
3. A nuclear reactor is a device in which a nuclear chain reaction is controlled.

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:- In recent times, small modular reactors are becoming increasingly popular around the world, with more preference being given to small modular reactors in terms of reliable power supply, improved safety performance, cost-effectiveness and co-generation.

Exam Useful Points:-

- Due to their modular design and small size, multiple units can be installed on a given site as per the requirement.
- Due to their versatility and simple design, they can be installed in those places as well.
- Due to their versatility and simple design, they can be installed in places that are not traditionally suitable for installation of nuclear reactors.
- A nuclear reactor is a device in which a nuclear chain reaction is controlled.
- Its most important use is in the generation of electricity. These are of many types, such as pressurized water reactor, heavy-water reactor, fast breeder reactor and thermal reactor.
- To reduce the rate of reaction, control rods of cadmium and boron are used in the reactor.
- In reactors, uranium is bombarded with neutron particles, causing it to break apart, releasing energy in the process.
- On 13 July 2021, construction of the world's first commercial small modular reactor Linglog-1 began at the Changjiang Nuclear Power Plant in Hainan Province in China.
- There are nuclear reactors that produce only 10 to 300 MW of electricity.

