

Q: Union Cabinet has approved the addition of four tribes to the list of Scheduled Tribes. Consider the following statement:

1. The list of ST were from the States of Himachal Pradesh, Tamil Nadu and Chhattisgarh.
2. Hatti tribe, Narikoravan and Kurivikkaran hill tribes and the Binjhia in Chhattisgarh are the list of four tribes.
3. Binjhia tribes in Chhattisgarh had been added to the list of ST in Chhattisgarh.

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: a

Explanation:

- Recently, the Union Cabinet has approved the addition of four tribes to the list of Scheduled Tribes, including those from Himachal Pradesh, Tamil Nadu and Chhattisgarh.
- Demands for inclusion of the communities have been pending for decades.
- The Hatti tribe in the Trans-Giri area of Sirmour district in Himachal Pradesh, the Narikoravan and Kurivikkaran hill tribes of Tamil Nadu and the Binjhia in Chhattisgarh, who were listed as ST in Jharkhand and Odisha but not in Chhattisgarh, were the communities newly added to the list.

Q: Consider the following statement regarding Gond Community:

1. Kadu Kuruba is the sub-category of Gond community.
2. Cabinet approved to bring Gond community of Uttar Pradesh in the list of ST from SC list.
3. Gonds are one of the largest tribal groups in the world.

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: b

Explanation:

- The Cabinet approved a proposal to bring the Gond community residing in 13 districts of Uttar Pradesh, under the ST list from the Scheduled Caste list.
- This includes the five subcategories of the Gond community (Dhuria, Nayak, Ojha, Pathari, and Rajgond).
- Gonds are one of the largest tribal groups in the world.

Q: Consider the following statement regarding Nitrogen hypoxia:

1. It is supposed to cause death by replacing oxygen with nitrogen.
2. In this method, his/her body is deprived of oxygen causing asphyxiation.

Choose the correct option from the codes given below:

- a) 1 Only
- b) 2 Only
- c) 1 and 2
- d) None of the above

Ans: c

Explanation:

- Nitrogen hypoxia is supposed to cause death by replacing oxygen with nitrogen.
- In this proposed execution method, death would be caused by forcing the inmate to breathe only nitrogen, depriving his or her body of oxygen causing asphyxiation.

- This method has been authorised by Alabama, Oklahoma and Mississippi, for executions but has never been used. However, lethal injection remains the state's primary execution method.

Q: Researchers at the Indian Institute of Science (IISc), Bengaluru have developed a new vaccine candidate against Tuberculosis (TB). Consider the following statement:

1. They have used spherical vesicles secreted by bacteria coated on gold nanoparticles.
2. India has been using the Bacille Calmette-Guerin (BCG) vaccine to fight TB.
3. Researcher had used Outer Membrane Vesicles (OMVs) to induce an immune response against the pathogen.

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: d

Explanation:

- Researcher have **used spherical vesicles secreted by bacteria coated on gold nanoparticles** which can then be delivered to immune cells.
- So far, India has been using the **Bacille Calmette-Guerin (BCG) vaccine to fight TB**.
- They used **Outer Membrane Vesicles (OMVs)**, which are spherical membrane-bound particles released by some bacteria, and contain an assortment of proteins and lipids which could induce an immune response against the pathogen.

Q: Recently, department related Parliamentary Standing Committee on Health presented the 138th report on the subject "Medical devices: regulations and control". Consider its key highlight:

1. It has recommended more certified medical devices testing laboratories.
2. A single-window clearing platform for application of licence for manufacturing, export, import shall integrate.
3. India has only 10 certified medical device testing laboratories.

Choose the correct option from the codes given below:

- a) 1 and 2
- b) 2 and 3
- c) 1 and 3
- d) 1, 2 and 3

Ans: a

Explanation:

Key Highlights:

- It has recommended more certified medical devices testing laboratories, robust IT-enabled feedback-driven post-market surveillance system and medical device registry, particularly for implants to ensure traceability of patients to assess performance of implants.
- India has only 18 certified medical device testing laboratories that have been approved by the CDSCO and that is grossly insufficient keeping in view the size of the country.
- The committee is of the considered opinion that having adequate common infrastructure including accredited laboratories in various regions of the country for standard testing will significantly encourage local manufacturers to get their products tested for standards and such measures undertaken will also help in reducing the cost of production which ultimately will improve the availability and affordability of medical devices in the market.
- There is a dire need for developing a robust IT-enabled feedback-driven post-market surveillance system for medical devices to evaluate their efficiency.
- It has highlighted the multiplicity of regulations, and said that a single-window clearing platform for application of licence for manufacturing, export, import shall integrate all these bodies involved in the regulation of medical devices.

