



**Daily MCQ: 20.04.2026**

1) Consider the following:

1. Gene therapy
2. Agriculture and food Technology
3. Toxicity Testing
4. Cosmetic Industries

Which of the above are applications of stem cells?

- (a) 1 and 3 only
- (b) 1, 2 and 3 only
- (c) 2 and 4 only
- (d) All the above

2) With reference to Adjournment Sine Die, consider the following statements:

1. It is the termination of a sitting of a House of Parliament for an indefinite period.
2. It is formally proclaimed by the President of India.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

3) Consider the following:

**Assertion (A):** Genetically Modified mosquito technology primarily targets *Aedes aegypti* and *Anopheles* species to control diseases like Dengue and Malaria..

**Reason (R):** Only male Genetically Modified mosquitoes are released into the wild because they do not bite humans.

Choose the correct code given below?

- (a) Both A and R are true, and R is the correct explanation of A
- (b) Both A and R are true, but R is not the correct explanation of A
- (c) A is true, but R is false
- (d) A is false, but R is true

4) Match the following traditional textiles with their respective States:

List I (Textiles)	List II (States)
A. Moirang Phee	1. Gujarat
B. Jamdani	2. Sikkim
C. Lepcha	3. Manipur
D. Patola	4. West Bengal



Select the correct answer using the code below:

- (a) A-3, B-4, C-2, D-1
- (b) A-4, B-3, C-2, D-1
- (c) A-3, B-1, C-4, D-2
- (d) A-2, B-4, C-3, D-1

- 5) With reference to PM Vishwakarma Scheme, consider the following statements:
1. The scheme is fully funded and administered by the Union Government.
  2. Only one member per family is eligible to avail of the scheme's benefits..

Which of the following statements is/are **Incorrect**?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

**Explanation**

**1) Answer: (D)**

- Stem cells are the body's **undifferentiated "master cells"** that have the unique ability to self-renew through division and transform into specialized cell types like muscle, nerve, or blood cells. They serve as a **biological repair system**, capable of regenerating or replacing tissues and organs damaged by disease, aging, or physical injury.
  1. **Gene Therapy:** Stem cells are used as "vehicles" to carry corrected genes into a patient's body. Because they self-renew, they provide a **permanent, lifelong supply** of healthy cells to treat genetic disorders like Sickle Cell Anemia.
  2. **Agriculture and Food Technology:** This involves **Cellular Agriculture**. Stem cells from livestock are grown in bioreactors to create **cultivated (lab-grown) meat**, offering a sustainable, slaughter-free alternative to traditional farming.
  3. **Toxicity Testing:** Scientists grow human "mini-organs" (Organ-on-a-Chip) from stem cells to test new drugs and chemicals. This is **more accurate than animal testing** because it uses actual human tissue to predict safety.
  4. **Cosmetic Industries:** Stem cell derivatives and plant stem cell extracts are used in **regenerative skincare**. They help stimulate collagen, repair skin damage, and are increasingly used in advanced hair regrowth treatments.
- **Therefore, option D is the correct answer.**

**2) Answer: (A)**

**Adjournment Sine Die** literally means "without a day." It occurs when the House is adjourned without naming a specific day for reassembly. While a standard **Adjournment** suspends the work in a sitting for a specified time (which could be hours, days, or weeks), **Adjournment Sine Die** leaves the date of the next meeting indefinite. **Hence, statement 1 is correct.**

The power of **Adjournment Sine Die** lies with the **Presiding Officer** of the House (the Speaker in the Lok Sabha and the Chairman in the Rajya Sabha). The **President of India** is



responsible for **Prorogation** (terminating a session) and **Dissolution** (terminating the life of the House), but not for daily adjournments or adjournment sine die. **Hence, statement 2 is incorrect. Therefore, option A is the correct answer.**

**3) Answer: (B)**

- **Assertion (A) is True:** Genetically Modified (GM) mosquito technology is indeed specifically engineered to target the *Aedes aegypti* (vector for Dengue, Zika, and Chikungunya) and *Anopheles* (vector for Malaria) species. These are the primary "vectors" responsible for the highest burden of human disease globally.
- **Reason (R) is True:** In all GM mosquito release programs, only males are released. This is a scientific and safety standard because male mosquitoes feed exclusively on nectar, while only females bite humans to obtain the protein needed for egg production.
- **Why R is NOT the explanation for A:** The reason Assertion (A) is true is due to the specific disease-carrying capacity of those species. We target *Aedes* and *Anopheles* because they are the killers, not because we only release males.
- The fact that we release only males (Reason R) explains how we ensure the release is safe for the public, but it does not explain why those specific species were chosen for the technology in the first place.
- **Therefore, option B is the correct answer.**

**4) Answer: (A)**

**Moirang Phee → Manipur**

A traditional handwoven textile of the Meitei community. Known for its **distinct motifs (like the Moirang symbol)** and cultural link to Manipur's heritage.

**Jamdani → West Bengal**

A **fine muslin weaving technique** with intricate patterns woven directly into the fabric. In India, it is mainly associated with West Bengal (especially around the Hooghly region).

**Lepcha → Sikkim**

Refers to the traditional weaving of the **Lepcha tribe**, indigenous to Sikkim. Fabrics are usually simple, geometric, and culturally symbolic.

**Patola → Gujarat**

A famous **double ikat silk textile** from Patan in Gujarat. Known for its precision and both-side identical patterns which are very expensive and prestigious. **Therefore, option A is the correct answer.**

**5) Answer: (D)**

- The PM Vishwakarma Scheme is a Central Sector initiative of the Government of India designed to support and uplift traditional artisans and craftspeople. Its core objective is to strengthen and sustain the *Guru-Shishya parampara*, the traditional mentor-disciple system, while providing comprehensive, end-to-end assistance to artisans. The scheme targets individuals engaged in 18 identified traditional trades, including carpentry, blacksmithing, pottery, cobbling, tailoring, and weaving. It also emphasizes inclusivity by prioritizing benefits for socially and economically disadvantaged groups such as Other Backward Classes (OBCs), Scheduled Castes (SCs), Scheduled Tribes (STs), and women across both rural and urban areas. **Hence statement 1 is correct.**



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- The PM Vishwakarma Scheme incorporates a safeguard to ensure equitable distribution of its ₹13,000 crore outlay by preventing the concentration of benefits within a single household. For this purpose, the scheme defines a “family” as a unit comprising the husband, wife, and unmarried children, and treats it as a single beneficiary entity. In practical terms, this means that even if multiple members of the same family are engaged in the same traditional trade—for instance, a father and son working as blacksmiths—only one individual from that household is eligible to avail benefits such as the toolkit incentive and concessional credit support. **Hence statement 2 is correct.**
- **Therefore, Option D is the correct answer.**

