

	SUB COMPONENTS
1	Enhancing quality of forest cover and improving ecosystem services
2	Ecosystem restoration and increase forest cover
3	Enhancing tree cover in Urban & Peri-urban areas
4	Agro-Forestry and Social Forestry
5	Restoration of wetlands

- Hence option (d) is the correct answer.

#### Q 11.C

- The world can emit approximately 400 billion tonnes more of carbon dioxide i.e. **Remaining Carbon Budget** before hitting the 1.5°C limits, as per the IPCC sixth assessment report.
- A **carbon budget** is a cumulative amount of carbon dioxide (CO<sub>2</sub>) emissions permitted over a period of time to keep within a certain temperature threshold. It is the maximum amount of carbon dioxide (CO<sub>2</sub>) that can be emitted while still having a chance to limit warming to 1.5°C or 2°C. When expressed relative to the pre-industrial period it is referred to as the Total Carbon Budget, and when expressed from a recently specified date it is referred to as the **Remaining Carbon Budget**. Hence option (c) is the correct answer.
- Carbon budgets are constructed on the premise that there is a **near-linear relationship between rising global temperatures and the level of cumulative atmospheric CO<sub>2</sub>**.
- **Global carbon budgets** can be further divided into national emissions budgets so that countries can set specific climate mitigation goals.
- **Emissions budgets are relevant to climate change mitigation because they indicate a finite amount of carbon dioxide that can be emitted over time, before resulting in dangerous levels of global warming.**
- Change in global temperature is independent of the geographic location of these emissions and is largely independent of the timing of these emissions.

#### Q 12.B

- **Ecological fitting** is "the process whereby organisms colonize and persist in novel environments, use novel resources or form novel associations with other species as a result of the suites of traits that they carry at the time they encounter the novel condition" The simplest **form of the ecological fitting is resource tracking**, in which an organism continues to exploit the same resources, but in a new host or environment. Hence option (b) is the correct answer.
- **Coevolution** is the **process of reciprocal evolutionary change that occurs between pairs of species** or among groups of species as they interact with one another. The activity of each species that participates in the interaction applies selection pressure on the others. In a predator-prey interaction, for example, the emergence of faster prey may select against individuals in the predatory species who are unable to keep pace.
- **Ecological succession** is the **process by which the mix of species and habitat in an area changes over time**. Gradually, these communities replace one another until a "climax community"—like a mature forest—is reached, or until a disturbance, like a fire, occurs. Ecological succession is a fundamental concept in ecology.
- **Exaptation** is a term used in evolutionary biology to describe a trait that has been co-opted for a use other than the one for which natural selection has built it.

#### Q 13.A

- **Electoral Rolls for Assembly and Parliamentary Constituencies:**

The Representation of Peoples Act, 1950 (RPA), provides for the preparation, correction, and revision of Electoral rolls for both parliamentary and legislative assembly constituencies. Besides it also has