**Multiple Choice Questions: Climate Change - Causes, Consequences, and Actions**

1. **Which are the main greenhouse gases (GHGs) emitted by human activities? (Multiple answers possible)**
   * a) Carbon dioxide (CO2)
   * b) Methan (CH4)
   * c) Nitrogen (N2)
   * d) Nitrous oxide (N2O)
2. **True or false: The greenhouse effect is an exclusively negative phenomenon for Earth.**
   * a) True
   * b) False
3. **Which statement is FALSE regarding the consequences of climate change?**
   * a) Increased frequency of extreme weather events
   * b) Decreased ocean acidification
   * c) Sea level rise
   * d) Disruption of agricultural cycles
4. **Which sector is the largest emitter of GHGs globally?**
   * a) Agriculture
   * b) Manufacturing industry
   * c) Transportation
   * d) Energy production
5. **Which are renewable energy sources? (Multiple answers possible)**
   * a) Coal
   * b) Solar energy
   * c) Natural gas
   * d) Geothermal energy
6. **Find the intruder:**
   * a) Deforestation
   * b) Conservation agriculture
   * c) Use of electric vehicles
   * d) Biomass combustion
7. **What is the main objective of the Paris Agreement on climate?**
   * a) Increase fossil fuel production
   * b) Limit global warming well below 2°C
   * c) Develop the fossil fuel industry
   * d) Ignore the impacts of climate change
8. **True or false: Adaptation to climate change is an alternative to reducing GHG emissions.**
   * a) True
   * b) False
9. **Which actions can be considered as climate change adaptation measures? (Multiple answers possible)**
   * a) Building dikes to combat sea level rise
   * b) Developing drought-resistant crops
   * c) Increasing consumption of local products
   * d) Implementing early warning systems for extreme weather events
10. **What is the role of the IPCC (Intergovernmental Panel on Climate Change)?**
    * a) Fund research projects on fossil fuels
    * b) Assess scientific information related to climate change
    * c) Promote climate change denial
    * d) Develop carbon capture technologies
11. **Which statement is FALSE regarding biodiversity and climate change?**
    * a) Climate change can lead to species extinctions.
    * b) Loss of biodiversity reduces the ability of ecosystems to sequester carbon.
    * c) Biodiversity is a negligible factor in climate regulation.
    * d) Healthy ecosystems are more resilient to climate change.
12. **Which are climate change mitigation strategies? (Multiple answers possible)**
    * a) Transition to renewable energy sources
    * b) Improvement of energy efficiency
    * c) Massive deforestation
    * d) Carbon capture and storage
13. **Find the intruder:**
    * a) Circular economy
    * b) Overconsumption
    * c) Recycling
    * d) Eco-design
14. **True or false: Developing countries are solely responsible for historical GHG emissions.**
    * a) True
    * b) False
15. **Match the terms with their definitions:**
    * 1. Mitigation
    * 2. Adaptation
    * 3. Resilience
    * 4. Carbon sequestration
    * a) Ability of a system to absorb disturbances and return to its initial state
    * b) Process of capturing and storing atmospheric CO2
    * c) Actions aimed at reducing GHG emissions
    * d) Adjustments in human or natural systems in response to climate change

**Answers:**

1. a, b, d
2. b
3. b
4. d
5. b, d
6. b
7. b
8. b
9. a, b, d
10. b
11. c
12. a, b, d
13. b
14. b
15. 1-c, 2-d, 3-a, 4-b