Explain the role of forests in the global carbon cycle and critically evaluate whether forest management can assist in mitigating rapid global warming.

[Name of the Writer]

[Name of the Institution]

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**Role of Forests in the Global Carbon Cycle**

In the current time, the rapidly changing global carbon cycle is very crucial to consider and studied in every aspect. It is so important because the global carbon cycle puts the very inverse impact on every area ranging from the life of living things to climate change. But! There is a credible and huge role always played by the forests in the global carbon cycle. In other words, forests play a huge and major role in the global carbon cycle. The major source of carbon to the atmosphere is the deforestation. While forests are the sources and their regrowth is a major sink for the carbon from the atmosphere (Kirschbaum, 2001). The understanding that the forests have a huge role in the global carbon cycle comes from more than a few decades. Beyond that, it is also a fact and everyone witnesses it that the global carbon cycle is always impacted inversely by many human activities such as production and industrialization etc. (Malhi, 2019).

The role of forest in the global carbon cycle can be seen in many ways.

Initially, the role of forests can be analyzed from the fact that forests absorb CO2 “Carbon Dioxide” in the atmosphere. The very point here is that Carbon Dioxide is necessary for the forests (trees and plants). Forests plays and incredible role in the global carbon cycle because it absorbs carbon dioxide during photosynthesis, store carbon below and above the ground and generate or produce oxygen as a by-product for the photosynthesis (Kirschbaum, 2001). On the other side, in the strong presence of greenhouse and increases in the greenhouse gases in the atmosphere, the role of forests becomes highly and more crucial and vital because (as mentioned above) it removes the carbon dioxide to reduce and mitigate the impact of climate change on the entire world and communities.

**Forest Management and Rapid Global Warming**

In the current time, global warming is considered as the real enemy of every nation and country around the globe. According to the article titled *“The U.S. and China Need to Put Aside Their Rivalry and Focus on the Common Enemy: Climate Change”,* climate change and global warmingare considered as the common enemy of every nation and country in the world. They are considered so because of their hugely inverse impacts in the entire world and communities and environments as well as individuals and their lives. Hence, in case of so much critical impacts on almost every aspect of the world, there is a need for huge efforts to put for mitigating the rapid global warming. Yes! Forest management is a way that assists in mitigating the rapid global warming. In short, the ways through which forest management can assist in mitigating the rapid global warming are elaborated below.

1. The very first is the effective forest management is the process of improving the forests from every aspect. While (as discussed above) forests play a huge role in mitigating the rapid global warming. So when there are improved and better forests then the rapid global warming would be managed better manner.
2. Forests influence the climate of the earth. The forests and the plats and soils of them drive the global carbon cycle by storing CO­2. Hence this effectively driven global carbon and stored extra CO2 lead to lower the global warming (COFORD, 2019).
3. The forest management is the way through which the CO2 can be stored. The forest management is the way that ensured and still ensuring the storage of carbon on the global level and this storage directly leads to help in mitigating the rapid global warming.
4. Last but not the least, forest management assist in mitigating rapid global warming because forest management helps to implement forestry measures to mitigate climate change, makes contributions towards reducing the reasons that increase global warming, and positively influence the rate at which the global warming increases (COFORD, 2019).

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