

Bago University
Department of Zoology
Second Semester Examination, September 2019

Fourth Year (B.Sc)
(Zoology Specialization)
Answer ALL questions

Zool. 4112
Biodiversity and Conservation
Time Allowed: (3) Hours

I. State TRUE or FALSE to the following statements.

(10 marks)

1. Tropical moist forests contain by far the highest number of threatened species.
2. The rapid increase in demand for energy has profound impacts on biodiversity at two levels.
3. Energy use has impacts at local, national and global levels.
4. Climate change will not affect current biodiversity conservation strategies.
5. Myanmar exhibits ordinary topographical diversity.
6. The Central Dry Zone supports a number of endemic species.
7. Twenty seven globally threatened mammal species have been recorded in Myanmar.
8. With over exploitation being the largest direct threat to many species after habitat loss.
9. Most of the countries in mainland South-East Asia are experiencing high rates of economic growth.
10. Surfing and diving in coral reefs are also popular activities.

II. Complete the following statements with appropriate words.

(10 marks)

1. The supply of ecosystem ----- depends on many attributes of biodiversity.
2. The number of species inhabiting the deep sea may be as ----- as 10 million.
3. Ecosystems vary greatly in ----- and composition.
4. Biodiversity contributes directly and indirectly to ----- security.
5. Biodiversity is also the source for many -----.
6. Inlay Lake have also been isolated for significant periods of ----- history.
7. Every year thousands of animals are removed from their ----- habitat.
8. Incentives to hunt animal species are often high for ----- people.
9. Dam construction can also have indirect impacts on -----.
10. Protected areas are likely to become ----- sanctuaries.

III. Answer All questions

(10 marks)

1. State the most critical linkages in implementing actions on sustainable development.
2. Name endemic mammal species of Myanmar.
3. State the two impacts of climate change on biodiversity.
4. Describe the designation of protected areas.
5. Write short notes on the nature of seed gene bank.

IV. Answer All questions

(20 marks)

1. Describe why biodiversity is important to ecosystem.
2. Tabulate the critically endangered mammal species of Myanmar. (IUCN Red List)
3. Give an account on the root causes of biodiversity loss in Myanmar.
4. Discuss about the different types of forest and fauna found in Natma Taung National Park.

V. Answer ANY THREE questions

(30 marks)

1. Describe about the global overview of genetic diversity.
2. Discuss as far as you can on the links between biodiversity and human health.
3. Discuss as far as you can on freshwater ecosystems in Myanmar.
4. Explain about the shifting cultivation in Myanmar.
5. Give brief account on Alaungdaw Kathapa National Park.
6. Tabulate the Myanmar's commitment to any ten biodiversity conservation related Agreements/ Conventions/ Protocols.
