



KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons) Forestry 2016 Admission

VI Semester Final Examination-June 2019

Wild.3206

Fundamentals of Conservation Biology (1+1)

Marks: 50

Time: 2 hours

(10x1=10)

I Fill up the blanks

- 1 The range of value of Simpsons' index of diversity is _____.
- 2 Extinction of most of the organisms today is due to _____ causes. (human induced /natural)
- 3 An example for Direct Economic Value for the biodiversity: _____.
- 4 An example of a Ecosystem Service provided by different components of biodiversity: _____
- 5 Name the person who coined the term "Biological Diversity" _____.

State whether True or False

- 6 Biological diversity is distributed uniformly all over the globe.
- 7 Biodiversity in India has deep cultural and religious significance.
- 8 'Chanakya', the prime minister of Mauryan Empire is credited for the declaration of sanctuaries for wild animals in ancient India.
- 9 The number of species presently found in the entire globe is completely known.
- 10 A key stone species in an ecosystem usually has a higher biomass when compared to others.

II Write Short notes on any FIVE of the following

(5x2=10)

- 1 Minimum Viable Population.
- 2 Invasive species management.
- 3 Hot spots of diversity.
- 4 Botanical gardens.
- 5 Genetic erosion.
- 6 Differentiate between 'Habitat degradation' and 'Habitat loss' .
- 7 Differentiate between 'Alpha' and 'Beta' diversity .

III Answer any FIVE of the following.

(5x4=20)

- 1 Biological diversity and the levels with suitable examples.
- 2 Mass extinctions.
- 3 Different *in situ* methods of conservation.
- 4 Genetic consequences of small population sizes.
- 5 Is captive breeding an answer to conserve large mammals? - Discuss
- 6 SLOSS debate and its role in designing the conservation reserves.
- 7 Values of biodiversity.

IV Answer any ONE of the following

(1x10=10)

- 1 Various Policy / legislative measures to conserve biological diversity in India.
- 2 Merits and demerits of various *Ex situ* methods of conserving biodiversity.
