M.Sc. ZOOLOGY Third Semester ANIMAL ECOLOGY & WILDLIFE BIOLOGY (MSZ – 13 B)

Duration: 3Hrs. Full Marks: 70

Part-A (Objective) =20 Part-B (Descriptive) =50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins. Marks: 50

Answer any five of the following questions:

- What do you mean by the term "species interaction?" Describe the positive types of species interaction. Citing an example, discuss the effect of exotic competitors on local fauna. (2+5+3=10)
- 2. Define captive breeding. Brief detail about the various issues related to captive breeding. Write detail about the captive breeding initiative in Assam. (2+3+5=10)
- 3. Give a brief note on Ramsar Convention. Discuss the different wetland types in NE India and their role in biodiversity conservation. (2+3+5=10)
- State the "Gaia hypothesis." What are the types of stability? Write briefly on the stability of isolated populations. (4+3+3=10)
- 5. Describe the various Forest types of NE India. Discuss the impact of forest fragmentation on wildlife. (5+5=10)
- 6. Define biosphere reserve. Write the objectives and structure of a biosphere reserve. Mention the names of the biosphere reserve of Northeast India.

(2+3+3+2=10)

- 7. Define "ecosystem". Briefly explain the single-channel energy flow and Y-shaped energy flow model. (4+3+3=10)
- 8. Define ecological niche. Write briefly on spatial, trophic and hypervolume niche along with diagram. (2+8=10)

M.Sc. ZOOLOGY Third Semester ANIMAL ECOLOGY & WILDLIFE BIOLOGY (MSZ – 13 B)

Dui	ration: 20 minutes			Marks - 20
		PART-A (Obj	ective)	
Tin	ne: 20 mins			Total Marks: 20
I. A	Answer the following:			1×20=20
1.	"Project Tiger" was launched of		following th	ne recommendation (2)
2.	For wildlife preservation in to in the country is provided by a) Wikipedia by c) Blue Data Book d) Red Data Book	te list of all endar	ngered animals and plan
3.	Which of the following is cona) Corbett Park – Cats c) Kaziranga – Elephant	b) Gir Forest – l		
4.	What is the major cause of dial Cannibalism by c) Habitat destruction di) Felling of trees		
5.	Ratios between energy flow a percentages are called- a) Energy flow efficiency c) Relative ratio of energy flow	b) Ecolog	ong the food chain gical efficiency gical gradients	ns when expressed on
6.	State whether true/false: a) Ecological footprint measured different countries and area b) Ecological niche is a vast a	as.		
7.	A boundary and transition are called	ea between two or me	ore communities	or biomes is

effect of two distinct comma) Euesis b) Ecc c) Edge effect d) Nice	nunities known as- otypic effect	of organisms a	at the ecotone is	due to the
9. The Wildlife Protection Adpassed in	•	ne protection of	f birds and anima	ls was
10.Ecosystem Cybernetics is a mechanisms in systems.	the science of		and	(2)
11.Organisms that occupy the		in different ge	ographical area a	re called
12. The number of links in a for a) Number of organisms in b) Number of producers in c) Length of food chain in d) Length of day.	an ecosystem.	n the-		
13. Which of the following end(a) Y-shaped or 2-Channel(b) Single Channel Energy(c) Both.(d) None.	l Energy Flow Model.	re practical than	n other?	
14. The factors of soils are stude a) Climate b) Bio		raphic	d) Edaphic	
15.Relationships between the asas	relationships and that relationships.	between two d	ifferent species is	(2)
beneficial to both species.	_is an obligatory positi	ve interspecific	interaction that	is strongly
