REV-00 MSZ/30/36

M.Sc. ZOOLOGY Fourth Semester ECOLOGY & WILDLIFE BIOLOGY (MSZ – 402 B)

Duration: 3Hrs.

Full Marks: 70

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

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Answer any *four* from *Question no.* 2 to 8 *Question no.* 1 is compulsory.

- Write short notes on the following:
 a) Predator-Prey Interactions
 b) Forest fragmentation
 - c) Canopy cover d) Altruism
- Explain about the systematic approach for Environmental Risk Assessment. Also mention the Purpose of performing ERA. (7+3=10)
- Describe the various Environmental Monitoring methods. Focus on the major environmental problems of Northeast India and its cause. (5+5=10)
- Elucidate the major Environmental Impact Assessment process. Mention the criteria for selection of Project location for Screening. (6+4=10)
- 5. What is home range of an animal? Write the difference between a territory and a home range. State how the animals advertise their territory? (2+2+6=10)
- 6. What is monitoring? What are the important roles of wildlife monitoring programs?What are the two aspects to the question of what to monitor? (2+6+2=10)
- 7. What do you mean by eco-development? Brief in detail about the initiatives undertaken for eco-development programmes with suitable examples. (2+8=10).

2017/06

 $(2.5 \times 4 = 10)$

Marks: 50

8. What are Zoonotic diseases? Name some Viral, Bacterial and Helminthic diseases found in Animals. Explain the preventive and control measure to be taken for Rabies. (1+4+5=10)

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Marks-20

 $1 \times 20 = 20$

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Duration: 20 minutes	(PART A - Objective Type)
I. Choose the correct answer:	

Which of the following is a diffuse source of freshwater eutrophication?
 a) Industrial discharges

b) Direct addition in pisciculture

c) Atmospheric deposition

d) Sewage treatment plant discharges

2. Life cycle migration pattern is exhibited by-

a) Amphibia

b) Land reptiles

c) Birds

d) Mammals

3. Shannon index diversity is most widely used for-

a) Dominance Index

b) Statistics Index

c) Abundance Index

d) None of these

4. Sorensen's coefficient of community is used for-

a) Quantitative Sampling

b) Similarities of two samples

c) Ecological diversity

d) None of these

5. In which category of CITES, Asian elephants are listed? a) Appendix-I

b) Appendix-II

c) Both

c) Both

d) None of these

6. Encephalomyelitis is a-

'a) Viral disease

b) Bacterial Disease

c) Fungal Disease

d) None of these

7. Toxoplasmosis leads to–
a) Circulatory disorders
b) Nervous disorders
c) Respiratory Disorders
d) All of these

8. The human-wildlife conflict includes–
a) Negative interaction
b) Positive interaction
c) Both

d) None

9. Which one of the following agency is not an enforcement agency?

a) Forest Department b) State Police

b) State Poli

c) RPF d) None

a) None

10.Shahtoosh shawls are made from-

a) Yak

b) Chiru

c) Mithun

d) None

11.Biodiversity is highest in which type of the following forests?

a) Alpine meadows

b) Deciduous monsoon forests

c) Coniferous forests

d) Wet evergreen equatorial forests

12.Environmental Impact Assessment (EIA) is mandatory under which one of the following India legislations?

a) Indian Forest Act

b) Air (Prevention and Control of Pollution) Act

c) Wildlife Protection Act

d) Environment (Protection) Act, 1986.

13.Direct monitoring includes–
a) Electrochemical Analysis
b) Absorption Spectroscopy
c) Liquid Chromatography
d) All of the above

14.Ozone density is measured by–a) UV absorption methodb) Chemiluminiscence methodsc) Chromatography

d) None of these

15.TERRA is a-

a) Geostationary Satelliteb) Polar Satellitec) Communication satellited) None of these

16.In India Van Mahotsava is observed on-

- a) 2nd of October b) 1st of December c) 10th of August
- d) 1st of July

u) i of July

17.Environmental degradation means-

- a) Overall lowering of environmental qualities.
- b) Adverse change brought in by human activities.
- c) Ecological imbalance.
- d) All of the above.

18. Which of the following is an ecological factor which determines biogeographical pattern?a) Mobility

- b) Microorganisms
- c) Alien immigration
- d) Succession

19. Which of the following lake has been named Destination Flyways by the United Nations World Tourism Organization (UNWTO) on 21st January 2014?

a) Dal lake in Kashmir Valley.

- b) Loktak lake in Manipur.
- c) Chilika Lagoon in Odisha.
- d) Kolleru lake in Andhra Pradesh.

20.Larger islands tend to support more species than smaller islands. This is because large islands have:

a) A higher rate of extinction.

b) A lower rate of immigration.

- c) A higher rate of immigration.
- d) A lower rate of extinction.



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