

REV-01
MSZ/20/25

2023/06

M.Sc. ZOOLOGY
FOURTH SEMESTER
ANIMAL ECOLOGY & WILDLIFE BIOLOGY-II
MSZ-402 B

SET
B

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

Marks: 20

(Objective)

1 × 20 = 20

Choose the correct answer from the following:

- Dung survey method is best for surveying:
 - Nocturnal animals
 - Dangerous animals
 - Both a & b
 - None of the above
- Cyclo-zoonoses requires:
 - No host
 - One host
 - >1 host
 - None of the above
- In tiger census, the transect survey method is used for sampling:
 - Prey species
 - Predator species
 - Both a & b
 - None of the above
- The process removes Carbon dioxide from the atmosphere:
 - Deforestation
 - Photosynthesis
 - Fossil fuel burning
 - All of the above
- Organic waste converter is:
 - Biomechanical process
 - Biochemical process
 - Electrical process
 - None of the above
- A human activity that causes forest fragmentation is.....
 - Urban development
 - Desertification
 - Soil erosion
 - Excavation
- Progress means.....
 - Development without destruction
 - Development with destruction
 - Sustainable development
 - Non-sustainable development
- In which of the following species, mating can happen with an infertile female?
 - Chimpanzee
 - Homo sapiens*
 - Both of the above
 - None of the above
- Which is a chemical secreted for communication purposes?
 - Estrogen
 - Pheromone
 - Androgen
 - All of the above
- Which of the following is a specialist?
 - Tiger
 - Fox
 - Leopard
 - Boar

11. Bio-telemetry is used for measuring:
 - a. Home range size
 - b. Daily movement pattern
 - c. Habitat utilization pattern
 - d. All of the above
12. Trail survey method is characterized by:
 - a. Zigzag line
 - b. Straight line
 - c. Both a & b
 - d. None of the above
13. How many species of cats are traded globally?
 - a. 57
 - b. 47
 - c. 37
 - d. None of the above
14. International trade in endangered and threatened species is regulated by.....
 - a. TRAFFIC
 - b. CITES
 - c. WWF
 - d. All of the above
15. Development effects of the Hydrosphere causes:
 - a. Air pollution
 - b. Soil pollution
 - c. Water pollution
 - d. Soil erosion
16. Environment management is done by the following process:
 - a. Iron removal filtration
 - b. Rain water harvesting
 - c. De-siltation
 - d. Soil water extraction
17. Invasive species change?
 - a. Nutrient availability
 - b. Water quality
 - c. Water flow
 - d. All of the above
18. Promiscuity is displayed by:
 - a. Hoolock Gibbon
 - b. Slow Loris
 - c. Chimpanzee
 - d. Rhesus macaque
19. Courtship of..... male is not accepted by females in drosophila.
 - a. Headless
 - b. Wingless
 - c. Eyeless
 - d. Tailless
20. Which animal uses tactile signals for communication more often?
 - a. Tiger
 - b. Artic tern
 - c. Ant
 - d. Chimpanzee

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(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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|---|----------|
| 1. Define human-elephant conflict. Write the causes of human-elephant conflict. Also mention about some of the mitigation measures undertaken in India. | 1+4+5=10 |
| 2. What do you mean by sacred groove? Write a note on the sacred grooves of Northeast India. Also write the conservation importance of sacred grooves. | 2+4+4=10 |
| 3. Define zoonotic diseases. Discuss some of the common zoonotic diseases found in wildlife with suitable examples. | 2+8=10 |
| 4. What is restoration ecology? Give an account of how you would restore a wetland and a mined area. | 2+4+4=10 |
| 5. Write the main objectives of environmental monitoring. Citing examples describe the techniques of air and soil monitoring. | 4+3+3=10 |
| 6. What do you mean by migration? Write about the different causes and problems of migration. | 4+6=10 |
| 7. What do you mean by courtship behaviour? Explain in detail about the courtship behaviour in 3 spined stickleback fish and birds. | 2+8=10 |
| 8. What is communication? Explain the different types of animal communication. | 2+8=10 |

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