**M.Sc. ZOOLOGY**
**FOURTH SEMESTER**
**ANIMAL ECOLOGY & WILDLIFE BIOLOGY-II**
**MSZ - 402B**
( Use Separate Answer Scripts for Objective & Descriptive )

Duration : 3 hrs.    Full Marks : 70

[PART-A: Objective]

Time : 20 min.    Marks : 20

*Choose the correct answer from the following:*    *1X20=20*

1. Waterhole Census is one of the best methods to count the population of--
    a. Hare
    b. Elephants
    c. Primates
    d. None of the above

2. *Amphixenosis* is the term applied to those diseases which may be transmitted from --
    a. Human to animals
    b. Animals to human
    c. Both a & b
    d. None of the above

3. Cyclo-zoonoses requires --
    a. No host
    b. One host
    c. >1 host
    d. None

4. Trail survey method is characterized by –
    a. Straight line
    b. Zigzag line
    c. Both a & b
    d. None of the above

5. In Active remote sensing, the sensor detects-
    a. Natural electro-magnetic radiation
    b. Artificially generated energy
    c. Both a & b
    d. None of the above

6. Which of the following softwares are widely used in GIS?
    a. Arc GIS
    b. Arc View
    c. ERDUS
    d. All of the above

7. Which one of the following indirect signs is widely used to estimate the elephant population size?
    a. Feeding sign
    b. Track
    c. Dung
    d. None of the above

8. How many sacred grooves are reported in India?
    a. 1,00,000
    b. 75,000
    c. 50,000
    d. None of the above

9. The slow rebuilding of forest gaps is called ___
    a. Primary succession
    b. Secondary succession
    c. Restoration
    d. None of the above

[1]

10. Ecological risk assessments applies a formal process to _____
    a. To assess the condition of the environment
    b. To estimate the damage done to environment by human activities
    c. To restore the damage to the environment by natural calamities
    d. All of the above

11. Soil moisture monitoring status is essential for _____
    a. Harvesting of crops
    b. Spraying of pesticides
    c. Spraying of fertilizers
    d. Efficient irrigation

12. Changes in pollution status of air is measured by _____
    a. Air quality index
    b. Air quality thermometer
    c. Smoke indicator
    d. None of the above

13. Disproportionate growth of algae in water bodies causes _____
    a. Depletion of Carbon dioxide in water
    b. Depletion of Oxygen in water
    c. Addition of Oxygen to water
    d. Addition of Carbon Dioxide to water

14. A nest deep in the water floor surrounded by weeds is made by _____ fish for courtship.
    a. Spineback
    b. Stickleback
    c. Tuna
    d. Piranha

15. Tiger marks its territory by -
    a. Scratch marks
    b. Body rubbing
    c. Urination
    d. All of the above

16. Which is a bigger entity?
    a. Home range
    b. Territory
    c. Can't be determined
    d. None of the above

17. Which of the following animals shows promiscuity?
    a. Hoolock gibbon
    b. Chimpanzee
    c. Golden langur
    d. Capped langur

18. Which of the following animal is a true monogamous?
    a. Hoolock gibbon
    b. Chimpanzee
    c. Golden langur
    d. Capped langur

19. Ants show _____ type of communication.
    a. Visual
    b. Tactile
    c. Chemical
    d. Auditory

20. Which of the following animals can mate even if the female is sterile?
    a. Slow loris
    b. Humans
    c. Hoolock gibbons
    d. All of the above

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## PART-B : Descriptive

Time : 2 hrs. 40 min.                                                      Marks : 50

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

1.  What do you mean by sacred groove? Write a note on the sacred groves of Northeast India. Also write the conservation importance of sacred groves.      2+4+4 =10

2.  What do you mean by illegal wildlife trade? Write a note on the illegal trade and the trade route of some major important species of India.      2+8=10

3.  Define zoonotic diseases. Discuss some of the common zoonotic diseases found in wildlife with suitable examples.      2+8=10

4.  What is animal communication? Explain the various types of animal communication.      2+8=10

5.  Write an explanatory note on animal food selection?      10

6.  Write the differences between an opportunist and a specialist. Write about animal foraging budget.      6+4=10

7.  State the theory of Island biogeography and the causes of Island factor. Discuss the future conservation aspects of the life on these Islands.      3+3+4 =10

8.  What is EIA process? Write the aims and objectives of EIA and describe the various steps followed by EIA before implementing a project.      2+3+5 =10

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