

M.Sc. ZOOLOGY
THIRD SEMESTER
ANIMAL ECOLOGY & WILDLIFE BIOLOGY
MSZ-303 B

Duration: 3 Hrs.

Marks: 70

PART : A (OBJECTIVE) = 20
PART : B (DESCRIPTIVE) = 50

[PART-B : Descriptive]

Duration: 2 Hrs. 40 Mins.

Marks: 50

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

1. What do you mean by the "Rhino Vision 2020"? State the aim and objectives of this programme. Also brief the rhino translocation programme conducted in India. (2+5+3=10)
2. Define ecological foot print. Brief in details about the ecological footprint scenario of the world with special reference to India. (2+4+4=10)
3. Define Symbiotic relationship. Explain the different types of interactions among Population. (3+7=10)
4. Explain the Gause Principle. Mention the predator-prey relationship in a community. (5+5=10)
5. What is Niche Theory? Illustrate how a habitat differs from a niche. Differentiate between fundamental niche and realized niche. (2+3+5=10)
6. Discuss about the "Gaia Hypothesis" and write its characteristics. (5+5=10)
7. Write the differences between: (5+5=10)
(a) National Park and Wildlife Sanctuary.
(b) Techno ecosystem and Natural Ecosystem.
8. Write short notes on the following: (5+5=10)
(a) Ecological role of wetland.
(b) Impact of deforestation on the environment.

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[PART-A : Objective]

Choose the correct answer from the following:

1×20=20

1. In which year, the Govt. of India imposed ban on killing of tiger?
 - a. 1969
 - b. 1971
 - c. 1972
 - d. None
2. Write the correct name of wildlife act of India.
 - a. The Wild life Protection Act, 1971.
 - b. Wild life Protection Act, 1972.
 - c. The Wild life (Protection) Act, 1972.
 - d. None.
3. De-notification of community reserve is:
 - a. Allowed.
 - b. Not allowed.
 - c. Both a & b.
 - d. None.
4. How many zones are there in an elephant reserve?
 - a. Three
 - b. Four
 - c. Five
 - d. None
5. How many species of adjutant storks are there in India?
 - a. One
 - b. Two
 - c. Three
 - d. None
6. What is the full form of WCCB?
 - a. Wild Life Crime Control Board.
 - b. Wildlife Crime Control Board.
 - c. Wild Life Crime Control Bureau.
 - d. None.
7. The Ramsar Convention is an international treaty for the conservation of:
 - a. Grassland habitat.
 - b. Desert habitat.
 - c. Wetland habitat.
 - d. None.
8. In which year, the National Forest Policy was enacted?
 - a. 1978
 - b. 1988
 - c. 1989
 - d. None
9. Under which section of the environment act, no person shall handle any hazard substance without permission?
 - a. Section 7
 - b. Section 8
 - c. Section 9
 - d. None
10. How many sub-species of elephants are there in India?
 - a. Two
 - b. Three
 - c. Four
 - d. None
11. The interaction in caterpillar and a plant is an example of:
 - a. Parasitism
 - b. Commensalism
 - c. Mutualism
 - d. Predation
12. The interaction of *Chthamalus* and *Balanus* is an example of:
 - a. Mutualism.
 - b. Predation.
 - c. Interspecific competition.
 - d. Intraspecific competition.
13. Pollinators association with the flowering plant is a type of:
 - a. Interspecific competition.
 - b. Intraspecific competition.
 - c. Commensalism.
 - d. Coevolution.
14. Camouflage character in organism shows:
 - a. Predation
 - b. Protection
 - c. Parasitism
 - d. All of the above



15. According to Niche theory and its attributes Levin's measure is used to:
 - a. Measure the Fundamental Niche.
 - b. Measure the Realized Niche.
 - c. Measure the Niche Breadth.
 - d. Measure the Niche Overlap.

16. The Gaia hypothesis was postulated by:
 - a. Lynn Margulis
 - b. James Lovelock
 - c. King and Jukes
 - d. Motoo Kimura

17. The type of diversity including all different kinds of living things found in certain habitat is called as:
 - a. Genetic diversity.
 - b. Species diversity.
 - c. Population diversity.
 - d. Ecosystem diversity.

18. The unequal heating of the earth's surface leads to the global patterns of:
 - a. Climate.
 - b. Topography.
 - c. Rainfall and Wind.
 - d. None of the above.

19. The type of ecosystem that are classified according to dominant vegetation is:
 - a. Aquatic ecosystem.
 - b. Forest ecosystem.
 - c. Biomes.
 - d. None of the above.

20. The closely related approach of Cybernetics is:
 - a. Information.
 - b. Control & Feedback.
 - c. Communication.
 - d. All of the above.

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Course :

Semester : Roll No :

Enrollment No : Course code :

Course Title :

Session : 2017-18 Date :

Instructions / Guidelines

- The paper contains twenty (20) / ten (10) questions.
- Students shall tick (✓) the correct answer.
- No marks shall be given for overwrite / erasing.
- Students have to submit the Objective Part (Part-A) to the invigilator just after completion of the allotted time from the starting of examination.

Full Marks	Marks Obtained
20	

Scrutinizer's Signature

Examiner's Signature

Invigilator's Signature