

**M.Sc. ZOOLOGY
THIRD SEMESTER
ANIMAL ECOLOGY AND WILDLIFE BIOLOGY-I
MSZ-303 B**

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

(Objective)

Marks: 20

Choose the correct answer from the following:

1×20=20

- BOGS are the area dominated by:
 - Rotting vegetation
 - Woody plants
 - Soft stemmed grasses
 - None of these
- How many action plans are there in the NBSAP?
 - Five
 - Six
 - Seven
 - None of these
- In which state of India, Indian rhino migrated and re-settled naturally?
 - Bihar
 - Uttar Pradesh
 - West Bengal
 - None
- IUCN categorized Greater Adjutant Stork as:
 - Rare sp.
 - Critically Endangered sp.
 - Vulnerable sp.
 - None of these
- In Assam, the estimated population size of Greater Adjutant Stork is:
 - 450-600
 - 550-650
 - 650-800
 - None of these
- Weeds are:
 - Indigenous sp.
 - Exotic sp
 - Both a & b
 - None of these
- Which species of weed has badly affected the Kaziranga NP of Assam?
 - Lantana
 - Mikania
 - Mimosa
 - None of these
- World Wetland Day was celebrated for the first time in:
 - 1972
 - 1980
 - 1997
 - None of these
- What is the process of breaking food down to yield energy called?
 - Photosynthesis
 - Nitrogen fixation
 - Autotropism
 - Cellular respiration
- How much sunlight is reflected back out of the total sunlight reaching earth?
 - 100%
 - 50%
 - 34%
 - 10%

11. A large variety of flora and fauna species are found in.....
a. Ecotone
b. Grassland
c. Shrub land
d. None of the above
12. The impact of human activities measured by area of biologically productive lands is called.....
a. Technoecosystem
b. Ecological footprint
c. Ecosystem modelling
d. All of the above
13. Captive breeding of red panda is done in:
a. West Bengal
b. Sikkim
c. Kashmir
d. Arunachal Pradesh
14. *Eichhornia crassipes* is an invasive species brought to India from:
a. Europe
b. South east Asia
c. Australia
d. Central Africa
15. Before releasing in the wild a captive bred animal is kept in a:
a. Cage
b. Emersion exhibit
c. Boma
d. Dome
16.competitors cannot co-exist.
a. Invasive
b. Indigenous
c. Alien
d. Complete
17. Which of the following are true monogamous animals?
a. Golden langur
b. Meerkat
c. Hoolock Gibbon
d. Platypus
18. A lichen is an example of arelationship.
a. Ammensal
b. Commensal
c. Negative
d. Mutualistic
19. An orchid is an example ofrelationship.
a. Ammensal
b. Commensal
c. Negative
d. Mutualistic
20. The Pygmy Hog conservation Center is situated in:
a. Itanagar
b. Guwahati
c. Namchi
d. Barrackpore

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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. What do you mean by conservation? Write a note on the past and present strategies of wildlife conservation. | 2+4+4=10 |
| 2. How many species and sub-species of rhinos are there in the world? Write a note on the "Rhino Vision 2020." | 5+5=10 |
| 3. What is the full form of NTCA? How it is formed? Write the objectives of NTCA. | 1+6+3=10 |
| 4. What are the differences between habitat and niche? Write about the different types of niches and habitats with examples. | 10 |
| 5. Write short notes on:
a) Ecological stability
b) Technoecosystem
c) Ecological footprint
d) Edge effect
e) Ecological energetics | 2×5=10 |
| 6. Write an explanatory note on the concept of captive breeding with one successful case story. | 6+4=10 |
| 7. What do you mean by species interaction? What are the different types of species interaction? | 2+8=10 |
| 8. What do you mean by invasive species? Write a case study of invasive species in India. | 3+7=10 |

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