

M.Sc. WILDLIFE BIOLOGY
THIRD SEMESTER
ECOLOGY & POPULATION MONITORING
MWS-302

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. Discuss the advantages and disadvantages of migration for animals. (5+5=10)
2. In how many phases, the tiger census is conducted in India? Write details about the different methods of tiger census techniques conducted in India. (2+8=10)
3. Does higher provisioning initiate higher water consumption activity? How status of the forest affects the variation in water requirement in wildlife? (4+6=10)
4. What are the differences between census and survey? Write details about the various methods of wildlife census. (3+7=10)
5. What are the differences between probability and non-probability sampling methods? (10)
6. Discuss the various factors that cause bird migration. (10)
7. Define home range of an animal. How is it different from a territory? (5+5=10)
8. Write short notes on the following: (4×2.5=10)
 - (a) Optimum Foraging Theory.
 - (b) Wallowing behavior.
 - (c) Acoustic census technique.
 - (d) Dung survey techniques.

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[PART-A : Objective]

Choose the correct answer from the following :

1×20=20

1. Which of the following method is used during non-human primate census in Northeast India?
 - a. Transect survey
 - b. Trail survey
 - c. Block survey
 - d. None
2. Who forwarded the concept of OFT?
 - a. Merritt Emlen
 - b. Robert Mac Arthur
 - c. Eric Pianka
 - d. All
3. How many sub-species of tigers are there in India?
 - a. Two
 - b. Four
 - c. Five
 - d. None
4. Who consumes more quantity of water?
 - a. Carnivore
 - b. Herbivores
 - c. Both
 - d. None
5. Which environmental factor has an effect on higher water consumption?
 - a. Humidity
 - b. Light
 - c. Temperature
 - d. None
6. Quantity of food consumption affect on:
 - a. More consumption of water.
 - b. Less consumption of water.
 - c. Both.
 - d. None.
7. How many species of rhino is there in India?
 - a. Three
 - b. Four
 - c. Five
 - d. None
8. Which of the following species never consume water?
 - a. Mammals
 - b. Birds
 - c. Insect
 - d. None
9. Which of the following methods is used by the forest department during elephant census in India?
 - a. Trail survey
 - b. Transect survey
 - c. Block survey
 - d. None
10. Aerial survey method is not suitable for counting:
 - a. Elephant
 - b. Rhino
 - c. Wild buffalo
 - d. None
11. Which of the following are characteristics of convenience sampling?
 - a. Easy to understand and carry out.
 - b. Can be exploratory.
 - c. Can be carried out in limited time.
 - d. All of these.
12. Which of the following can be calculated by using line transect method?
 - a. Density
 - b. Abundance
 - c. Both a and b
 - d. None
13. Which of the following types are of transects?
 - a. Line transect
 - b. Strip transect
 - c. Point transect
 - d. All of these
14. Which of these are characteristics of cover?
 - a. Provides protection from harsh weather.
 - b. Provide offspring.
 - c. Provide soil.
 - d. None of these.

15. Habitat selection by species depends on:

- a. Size of the species.
- b. Water requirement.
- c. Food requirement.
- d. All of these.

16. Which of the following are man-made covers?

- a. Artificial movable bee-hive.
- b. Nest boxes for sparrows.
- c. Both a and b.
- d. None.

17. Which of these methods uses equal or proportionate representation of subjects?

- a. Convenience sampling
- b. Quota sampling
- c. Snow-ball sampling
- d. All of these

18. Which of these are advantages of dispersal?

- a. Avoiding predation
- b. Finding mates
- c. Finding food
- d. All of these

19. Cluster sampling, stratified sampling and systematic sampling are types of:

- a. Direct sampling
- b. Indirect sampling
- c. Random sampling
- d. Non- random sampling

20. The type of sampling in which each of the elements has equally likely chance of occurrence is called:

- a. Regular sampling
- b. Error free sampling
- c. Inertia sampling
- d. Simple random sampling

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UNIVERSITY OF SCIENCE & TECHNOLOGY, MEGHALAYA



[PART (A) : OBJECTIVE]

Duration : 20 Minutes

Serial no. of the
main Answer sheet

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