

B.SC. ZOOLOGY
SEMESTER- 1ST
NON-CHORDATES: ECOLOGY
BSZ-102

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. Write short notes on **any two** of the following 5+5=10
 - a) Food Chain
 - b) International Regimes
 - c) Parasitism
 - d) Nitrogen cycle
2. Explain the term 'Ecology'. Discuss about the Ecological organizations in Nature. 3+7=10
3. What is an Ecosystem? Illustrate the different types of Ecosystem with suitable examples. 3+7=10
4. Describe the Ecological Succession and its different aspects of development. 10
5. What do CFCs stand for? Name some devices where CFCs are used. Why CFCs are considered as pollutants? 1+2+7=10
6. How can we reduce, reuse and recycle water? 10
7. Write a note on Protected Area Network in India. Name five Wildlife Sanctuaries of Assam. 7+3=10
8. Give the correct name of the wildlife act of India. How many sections and chapters are there in the wildlife act of India. Brief details about the section related to hunting. 1+7+1=10

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[PART-A : Objective]

Choose the correct answer from the following :

1X20=20

1. The maximum number organisms supported by an Environment is called its-
 - a. Habitat
 - b. Carrying capacity
 - c. Ecology
 - d. Community
2. A group of same species lives in same habitat is called
 - a. Consumer
 - b. Community
 - c. Diversity
 - d. Population
3. Living together with another organism in close association is called
 - a. Symbiosis
 - b. Heterotrophs
 - c. Mutualism
 - d. Parasitism
4. The transfer of energy from green plants through a series of organisms is called
 - a. Ecosystem
 - b. Consumer
 - c. Producer
 - d. None of the above
5. The Upright pyramid of number is absent in
 - a. Grassland
 - b. Lake
 - c. Pond
 - d. Forest
6. In an aquatic ecosystem the level equivalent to cows in grasslands is
 - a. Nekton
 - b. Zooplankton
 - c. Phytoplankton
 - d. Benthos
7. The type of ecosystem with the highest mean plant productivity is
 - a. Tropical rain forest
 - b. Temperate grassland
 - c. Desert
 - d. Tundra
8. Identify the possible link 'A' in the following Food Chain:
Plant → Insect → Frog → 'A' → Eagle
 - a. Rabbit
 - b. Parrot
 - c. Wolf
 - d. Cobra
9. Which of the following is NOT a functional unit of an Ecosystem?
 - a. Decomposition
 - b. Productivity
 - c. Stratification
 - d. Energy flow
10. Synecology deals with
 - a. Ecology of many species
 - b. Ecology of many populations
 - c. Ecology of community
 - d. None of the above
11. Which of the following is an organic gas?
 - a. Hydrocarbons
 - b. Aldehydes
 - c. Ketones
 - d. Ammonia
12. Fugitive emissions consist of
 - a. Street dust
 - b. Dust from construction activities
 - c. Dust from farm cultivation
 - d. All of the above
13. Ozone is found in _____.
 - a. Mesosphere
 - b. Ionosphere
 - c. Stratosphere
 - d. Exosphere
14. Level of noise recommended in most countries is
 - a. 30-40 dB
 - b. 95-100 dB
 - c. 85-90 dB
 - d. 75-80 dB

UNIVERSITY OF SCIENCE & TECHNOLOGY, MEGHALAYA



[PART (A) : OBJECTIVE]

Duration : 20 Minutes

Serial no. of the
main Answer sheet

- 15. The phosphorus cycle lacks _____ component
 - a. A mineral
 - b. An organic
 - c. An aquatic
 - d. An atmospheric

- 16. Which one of the following is a sedimentary cycle?
 - a. Oxygen Cycle
 - b. Hydrogen Cycle
 - c. Phosphorus Cycle
 - d. Nitrogen Cycle

- 17. Under which section of the Wild Life (Protection) Act, 1972 hunting of wild animal is strictly prohibited?
 - a. 9
 - b. 8
 - c. 7
 - d. 6

- 18. What is the animal symbol of W.W.F. (World Wildlife Fund)
 - a. Giant Panda
 - b. Red Panda
 - c. Tiger
 - d. Kangaroo

- 19. When is the World wildlife week celebrated?
 - a. Last week of August
 - b. First week of October
 - c. Second week of March
 - d. Third week of December

- 20. A natural area designated to protect the ecological integrity of one or more ecosystems for present and future generations, is called
 - a. Biosphere Reserve
 - b. National Park
 - c. Bird Sanctuaries
 - d. Wildlife Sanctuaries

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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	

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Scrutinizer's Signature

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Examiner's Signature

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Invigilator's Signature