

Roll No.

D-1014

**M. Sc. (Fourth Semester) (Main/ATKT)
EXAMINATION, May-June, 2020**

ZOOLOGY

(Optional Group-D)

Paper Fourth

(Environmental and Biodiversity)*Time : Three Hours]**[Maximum Marks : 80***Note :** Attempt all Sections as directed.**Section—A**

1 each

(Objective/Multiple Choice Questions)**Note :** Attempt all questions.

Choose the correct answer :

1. The role of decomposer in nitrogen cycle is to :
 - (a) Fix N_2 into ammonia
 - (b) Release ammonia from organic compound thus returning it to the soil
 - (c) Denitrify ammonia thus returning N_2 into the soil
 - (d) Incorporate nitrogen into amino acid and organic compound

2. Acid rain due to :
 - (a) presence of CO_2
 - (b) presence of CO_2 and CO
 - (c) presence of N_2
 - (d) presence of SO_2 and SO_3
3. Radiation pollution can be controlled by :
 - (a) cyclone collector
 - (b) electrostatic precipitation
 - (c) plate type precipitation
 - (d) strict enforcement of safety
4. Lichen are indicators of :
 - (a) water pollution
 - (b) air pollution
 - (c) radiation pollution
 - (d) noise pollution
5. The ozone layer is present in :
 - (a) thermosphere
 - (b) stratosphere
 - (c) mesosphere
 - (d) lithosphere
5. Green house effect increasing due to :
 - (a) increasing CO_2 concentration
 - (b) increasing SO_2 concentration
 - (c) increasing CFCs concentration
 - (d) hole in ozone layer

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6. Sound above what level are considered hazardous noise pollution ?
- (a) Above 120 dB
 - (b) Above 30 dB
 - (c) Above 100 dB
 - (d) above 80 dB
7. A species facing an extremely high risk of extinction in the of extinction in the immediate future is called :
- (a) vulnerable
 - (b) rare
 - (c) endangered
 - (d) link species
8. Chipko Movement was launched for the protection :
- (a) forest
 - (b) livestock
 - (c) wetland
 - (d) grassland
9. The unit of ozone is :
- (a) dB
 - (b) ppb
 - (c) ppm
 - (d) DU

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10. Biodiversity hotspots are recognized on the basis of :
- (a) their proximity to national park and reserves
 - (b) the number of endemic species they contain
 - (c) the degree to which the included species are threatened with extinction
 - (d) Both (b) and (c)
11. Of the following, which is not a natural disaster ?
- (a) nuclear explosion
 - (b) deforestation
 - (c) forest fire
 - (d) lighting
12. The biggest driver of deforestation :
- (a) agriculture
 - (b) forest fire
 - (c) volcanic activities
 - (d) soil erosion
13. The intensity scale of the earthquake is called :
- (a) Mercalli scale
 - (b) Richter scale
 - (c) Number scale
 - (d) None of the above

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14. Soil conservation can best achieved by :
- (a) wind screening
 - (b) good plant cover
 - (c) restricted human activities
 - (d) low rain fall
15. Which of the following is a non-renewable resource ?
- (a) forests
 - (b) water
 - (c) wildlife
 - (d) coal
16. Both power and manure is provided by :
- (a) biogas plant
 - (b) nuclear plant
 - (c) thermal plant
 - (d) hydroelectricity plant
17. What is called for the collection rain water for use ?
- (a) rain collection
 - (b) rain water harvesting
 - (c) rain digging
 - (d) rain water pump

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18. The term ISWM refers to :
- (a) International Solid Waste Management
 - (b) Integrated Solid Waste Management
 - (c) Integrated Solid Waste Machine
 - (d) International Solid Waste Mechanism
19. Which gas produced in open dumps from the decomposition of biodegradable ?
- (a) Ethane
 - (b) Propene
 - (c) Methane
 - (d) Ethen
20. When did the word 'food security' came into exist ?
- (a) 1970
 - (b) 1972
 - (c) 1974
 - (d) 1976

Section—B

2 each

(Very Short Answer Type Questions)

Note : Attempt all questions using 2-3 sentences.

1. What is the biosphere ?
2. What is the environment impact assessment ?
3. What is the earthquake ?

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4. Explain global warming.
5. What is the unit of sound ?
6. What is the in-situ conservation ?
7. Define the green house effect.
8. What is the biomagnifications ?

Section—C

3 each

(Short Answer Type Questions)

Note : Attempt all questions in about 75 words.

1. Describe the water conservation.
2. Explain soil pollution.
3. What is the bioaccumulation ?
4. Explain the flood.
5. What is the landslides ?
6. Describe soil erosion.
7. Define the world food problem.
8. What is the sustainable development ?

Section—D

5 each

(Long Answer Type Questions)

Note : Attempt any *four* questions in about 150 words.

1. Describe the agriculture pollution.

Or

Write an essay on solid waste management.

2. Explain the ozone depletion.

Or

Describe the control of globe warming.

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3. What is timber extraction ? Describe its process.

Or

Value of biodiversity.

4. Write an essay on the conventional and non-conventional energy resource.

Or

Describe the disaster management-earthquake and cyclone.

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