Roll No. .....

E–814

M. Sc. (Third Semester)

EXAMINATION, Dec.-Jan., 2020-21

BIOSCIENCE

Paper Second

(Ecology and Environmental Biology)

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 natural place of an organism or community is known as :

   (a) Niche

   (b) Biome

   (c) Habitat

   (d) Habit

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2. Which is the renewable exhaustible natural energy resource ?

   (a) Coal

   (b) Petroleum

   (c) Kerosene

   (d) Biomass

3. Plants growing under direct sunlight are known as :

   (a) Heliophytes

   (b) Sciophytes

   (c) Psamophytes

   (d) Dicots

4. What type of food chain is it ?

   dead animals → blowfly maggot → maggots → frog → snake

   (a) Detrital food chain

   (b) Decomposer food chain

   (c) Predator food chain

   (d) Grazing food chain

5. "The pyramid of energy is always upright" states that :

   (a) The energy conversion efficiency of herbivores is better than carnivores.

   (b) The energy conversion efficiency of carnivores is better than herbivores.

   (c) Producers have the lowest energy conversion efficiency.

   (d) Energy conversion efficiency is the same in all trophic levels.

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6. Which of the following lake zones has phytoplanktons in abundance ?

   (a) Littoral zone

   (b) Benthic zone

   (c) Limnetic zone

   (d) Profundal zone

7. Terrestrial biomes has a rapid exchange of :

   (a) Carbon dioxide

   (b) Oxygen

   (c) Water

   (d) All of the above

8. In which of the following we can see fluctuation in the water level dramatically in different seasons ?

   (a) Coral reefs

   (b) Brackish water

   (c) Wetlands

   (d) Deep oceans

9. Which is the simplest aquatic ecosystem ?

   (a) Pond

   (b) Stream

   (c) Lake

   (d) River

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10. Beach is classified into which ecosystem ?

    (a) Lake ecosystem

    (b) Seashore ecosystem

    (c) Pond ecosystem

    (d) River ecosystem

11. Which of the following pollutants are responsible for the cause of SMOG ?

    (a) From incinerators

    (b) Emissions from vehicles

    (c) Both incinerators and emissions from vehicles

    (d) None of the above

12. Which of the following is called the secondary air pollutant ?

    (a) PANs

    (b) Ozone

    (c) Carbon monoxide

    (d) Nitrogen dioxide

13. Which of the following agents is responsible for turning the Taj Mahal yellow ?

    (a) Sulphur

    (b) Chlorine

    (c) Sulphur dioxide

    (d) Nitrogen dioxide

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14. DDT and Aluminium cans are examples of ..... .

(a) Primary pollutants

(b) Secondary pollutants

(c) Biodegradable pollutants

(d) Non-biodegradable pollutants

15. Which of the following industries plays a major role in polluting air and increasing air pollution ?

(a) Brick manufacturing industries

(b) Manufacture of gases industries

(c) Electrical appliances and electrical goods industries

(d) All of the above

16. The point of the earth's surface directly above the point where an earthquake occurs is called the :

(a) Focus

(b) Epicenter

(c) Fracture

(d) Fault

17. Which of the following is a man made disaster ?

(a) Terrorism

(b) Major fire

(c) Pollution

(d) All of the above

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18. Floods can be prevented by :

(a) Afforestation

(b) Cutting the forest

(c) Tilling the land

(d) Removing the top soil

19. The word ‘disaster’ comes from :

(a) Greek word

(b) Latin word

(c) French word

(d) German

20. Which is known as seismic wave ?

(a) Tsunami

(b) Hurricane

(c) E1 Nino

(d) Typhoon

Section—B 2 each

(Very Short Answer Type Questions)

Note : Attempt all questions.

1. What is Ecology ?
2. What is pollution ?
3. What are species ?
4. What are Biotic Factors ?

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5. What is Biosphere ?
6. What are the major Terrestrial Biomes ?
7. What is the typical vegetation of the grasslands ?
8. What is a Food Chain ?

Section—C 3 each

(Short Answer Type Questions)

Note : Attempt all questions.

1. What is a Community ? What is the difference between the concepts of community and population ?
2. What is the difference between Ecological Niche and Habitat ?
3. What are the *three* main types of tropic pyramids studied in ecology ?
4. What are deciduous trees ?
5. How is energy transferred along a food chain ?
6. What is the difference between the concepts of food chain and food web ?
7. What is biodiversity ?
8. What is ecological succession ?

Section—D 5 each

(Long Answer Type Questions)

Note : Attempt all questions.

1. Explain energy flow models.

Or

Explain Ecological energetics.

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2. Describe aquatic ecosystem.

Or

Write on natural and plantation forest.

3. Explain soil pollution.

Or

Write on landslide.

4. What do you mean by IPR ?

Or

Explain forest and medicinal plants.

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