

Indraprastha Institute of Information Technology Delhi

ESC 205 A Environment Science

Mid Semester Examination- September 21, 2025

MM 20

Time 1 hr.

Attempt all the questions

Each question carries 0.5 mark

1. Fill in the blanks

- i. India is number 3 country in the world in having the most arable fertile land. Agricultural practices started almost 10000 years ago.
- ii. Lentic refers to
- iii. Detritus food chain – Starts with dead
- iv. The least amount of energy is found at..... of the pyramid in the Trophic level.
- v. Ecology is the study of
- vi. A trophic refers to
- vii. Saprotrophs are
- viii. Simpson's Diversity Index is a measure of diversity which takes into account the number of species present, as well as theof each species
- ix. Tropical forests are denser than the forests. 5

2. Which of the following is correct :

a. Examples of Terrestrial Biodiversity one of the following :

1.tropical rainforests, 2.oceans, 3. Drains, 4. None of these

b. Marine diversity is even much higher than the

1.rural diversity, 2.terrestrial diversity, 3.immunological systems, 4. None of these.

c. Species which are restricted only to a particular area are known as

1. endergonic, 2. divergent, 3. endomonic, 4. none of these

d. Poaching is another threat to

1. depreciation, 2. Synthesis, 3. Wild life, 4. none of these

e. Faunal analysis refers to the analysis of

1. plant remains, 2. animal remains, 3. algae, 4. none of these.

f. Ex-situ conservation involves :

1. gene bank, 2. animal habitats, 3. mineral matter, 4. none of these.

g. Pitcher plant is a plant in Northeast India which eats

1. fruits, 2. flowers, 3. Insects, 4. none of these

h. Forest cover in India is just

1. 2 % of the world area, 2. 2 % of world forests, 3. 21 % of world forest cover, 4. none of these.

i. Water poor countries include

1. Brazil, 2. Argentina, 3. Saudi Arabia,
4. none of these

j. A layer of sediment or rock that is highly permeable and contains water is called an 1. Sedimentation, 2. humous, 3. aquifer, 4. none of these. 5

3. Answer true or false

i. Chimpanzees and apes are carnivores. F

ii. Hormones cortisol and adrenaline are excreted during the display of hysterical strength. F

iii. Goat is not bovine animal F

iv. Visakhapur National Park Bishnupur is the only Floating park in the world. F

v. Columbia is a water deficient country in the world. T

vi. There is more groundwater than fresh water in this world. T

vii. Critical minerals are essential for the defence of a nation. T

viii. Cr 3+ is more toxic than Cr 6+. F

ix. The IUCN stands for International Union for Community of Nations. T

Chemototrophs useinstead of glucose ?

x. What % of medicines in allopathic system have originated from natural products?

5

Short Answer Questions :

4. Why is biodiversity important for the survival of life on this earth?

5. Why were the horses but not the zebras domesticated?

6. What is the importance of rare earth permanent magnets?

7. Why is eating and being eaten so important on this earth?

8. How can we contribute to the maintenance of the environmental health of the universe?

9. Describe the reasons for the cloud bursts.

10. Biomagnification of mercury leads to which of the following diseases.

Itai Itai, epilepsy, minamata, plague, herpes.

11. Which of the following enzyme is mainly used in the photosynthesis:

Protease, lipase, rubisco, polymerase.

12. Comment whether the following statement about the global warming is true or false.

With 2degree C of warming, global mean sea level is projected to rise by 0.46-0.99 meters (1.51-3.25 feet) by 2100 compared to 1986-2005 levels. And even if we were to halt warming, sea levels would continue to rise for centuries.

13. Describe the 2 environmental effects of mining .