Practical No. 5

Aim: Comparative study of ecosystems in the surroundings.

Apparatus: Note book, pen, pensil, old newspapers etc.

Procedure:

- 1. Select any two different ecosystems in 1 SqKm area around your home or school. Eg. pond, meadow, garden, large trees like banyan, peepal, tamarind, mango, agricultural farm etc.
- 2. Note down abiotic factors found in them.
- 3. Collect the samples of plants with different sizes and types. Keep seedlings or branches of plants in folds of old newspapers and dry them properly. Make a scrap book from these herbarium sheets.
- 4. Note down the names of animals found in both the ecosystems. Collect their diagrams/photos.
- 5. Find out the differences between the biotic factors in both the ecosystems. Find out the reasons.

Observations:

Sr.	Name of the ecosystem	List of biotic factors	List of abiotic factors
1	Pond ecosystem	fish, grass, insects	water, Stones,
2	Paddy ecosystem	Grosshopper, frog.	Sand, air, light.
3			
3/4			

Other important notes: 1 There are many biotic factors who efect the ecosystem. 2 abiotic factors are also important. 3 Now, ecosystems are in danget. 4 ecosystem can not grow without the intraction ob biotic and abiotic factors in lecosystem.
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Inference / Conclusion
Ecosystem is the basic function unit used to study the ecology. The interactions of abiatic and biatic factors are necessary for ecosystem, every factors or element in ecosystem are important for ecosystem. Many ecosystem come tagether to form food chain.

Multiple Choice Questions 1. Butterfly is a consumer. 2 primary b. secondary c. tertiary 2..... of the following is omnivorous. d. none of these b. Grasshopper a. Cow c. Worm d. Sparrow 3. Food web contains many a. primary consumers. b. secondary consumers. c. tertiary consumers. d food chains. 4. Autotrophic plants are at the level of food chain. a. tertiary nutrition b. secondary nutrition producers d. highest 5. Man is animals. a. herbivorous b. carnivorous c. autotrophic d. omnivorous : Exercise : 1. Find out in the past if there were some biotic and abiotic factors in the ecosystems you have selected. But now they are not found. If this is the situation, find out the reasons for their diminition. biotic factors :- Dinosoures, Dodo birds, Indian lepoured Reason: There are many reasons for extiction of biotic factors like natural deseaster (volcanic activity), Deforestation, hunting, etc. at all, the biotic factor roll very important role in our doily life. 2. Did you find any examples of human interference in these ecosytems? Yes, I find many human interference in these ecosystems, such as deforestation, hunting of Many factors are affected by this interference of humans .. 3. What is the relation with ecosystem of figure shown below? In this diagram, plant receive their energy from sun then the Grasshoper depends on them and this chains start continuously from frog. snake, eagle to decomposer this. is food chain. Remark and Signature PZD3GU 43