

1. Explain Gompertz's model. State its uses.
2. Explain in brief: Life table.
3. Write a note on Leslie Matrix.
4. Describe, in detail, biodiversity and its role in ecology.
5. State probability density function of log normal distribution. How it differs from Normal distribution?
7. Explain in detail: Poisson Forest, Regular Spatial Pattern.
8. Explain the procedure of calculating Simpson's index.
9. State the different terms used in life table. Give their interrelationship.
10. Explain exponential model. Give its applications in ecology.
11. Explain the procedure of calculating Shannon's index. 12. State different capture recapture models in the literature of Statistical Ecology and explain any one of them.
13. Give two names of smoothing process.
14. How will you interpret the linear growth model?
15. Define closed population.
16. Give two limitations of exponential distribution.
17. State scope and limitations of Gompertz's model.
18. State the names to derive (i) estimator of recapture and multiple recaptures, (ii) estimator of population size.
19. Give use of log normal distribution.