

Note: 1) All questions are compulsory

2) Figure to the right indicate marks.

3) Draw suitable diagrams wherever necessary.

1.A.) Fill in the blanks

Marks 05

1) _____ of results in respect of completeness and accuracy occupies an important place in the census program.

(Preparatory work, Evaluation, Analysis)

2) Temperature influences the sex ratio in _____

(cattles, molluscs, marsupials)

3) _____ include all green plants that fix solar energy to synthesize food by photosynthesis.

(Autotrophs, Heterotrophs, Carnivores,)

4) _____ is a graphical representation to show the number of organisms per unit area.

(Pyramid of Numbers, Pyramid of Biomass, Pyramid of Energy)

5) Silent valley is national park is situated at _____
(Palakkad, Nagpur, Jawai)

1.B) Match the following.

Marks 05

Column A	Answer
Log Phase	Climatic component
Temperature	Ammonification
Tiger	Pirotan Island
Corals	Tadoba National Park
Bacillus	Rapid Growth

1.C) True or False.

Marks 05

- 1) The genetic sex ratio is normally 1:2
- 2) The word populus means people occupying a particular region
- 3) The energy pyramid is always upward.
- 4) Lion tailed Macaque is an endemic animal.
- 5) Tiger is the brand animal of Sanjay Gandhi national park.

Q2) Answer the Following (Any two).

Marks 20

1. Describe population Density with suitable examples.
2. Explain different Survivorship curves with the help of suitable graph/ diagram
3. Human census- Mechanism and Significance
4. Sigmoid Growth Curve and J Shaped Growth Curve

Q3) Answer the Following (Any two).

Marks 20

1. Write a detailed account on Ecological pyramids.
2. Explain in detail about Animal interactions
3. Explain in detail about impact of temperature on biota.
4. Write a detailed account on Fresh water ecosystem.

Q4) Answer the Following (Any two).

Marks 20

1. Explain about different Categories of IUCN red data book.
2. Write about Tadoba National Park
3. Give Details of Silent Valley National Park
4. Explain about Pirotan Island National park

Q5) Write short notes on (Any four).

Marks 20

1. Ecological niche
2. Mortality
3. Population interaction
4. Mutualism
5. Food Web
6. Lentic Ecosystem
7. What is the fauna of keoladeo national park.
8. Give details of flora and fauna of Kaziranga.