

- Instructions:** (1) Draw figures where necessary.
 (2) Show question number against each answer.
 (3) Figures in right are marks.

Q1. Write a detail note on importance of biodiversity patterns in conservation. (10)

OR

Q1(A) Explain the concept of alpha, beta and gamma diversity. (05)

Q1(B) A detail note on spatial patterns. (05)

Q2. A detail note on biogeochemical cycling including diagrams. (10)

OR

Q2(A) How does formation and protection of soil happens in biodiversity? Explain. (05)

Q2(B) A detail note on values of biodiversity. (05)

Q3. What does threat mean? Write about all types of threat affecting the biodiversity. (10)

OR

Q3(A) A brief note on man-wildlife conflicts. (05)

Q3(B) What are the consequences of biodiversity loss? (05)

Q4. A detail note on In-situ and Ex-situ conservation. (10)

OR

Q4(A) What is biodiversity hotspot? Write about the hotspots present in India in detail. (05)

Q4(B) Explain- "India as a mega-diversity nation. (05)

Q5. Write any **Ten** out of twelve. (10)

- 1) Who coined the term biodiversity?
- 2) What is red data book?
- 3) Write down importance of conserving biodiversity.
- 4) Examples of endangered species in India.
- 5) What does biomass estimation mean?
- 6) Define primary productivity.
- 7) What are invasive species?
- 8) Full form of IUCN.
- 9) When was National Biodiversity Action Plan implemented?
- 10) What are the anthropogenic disturbances causing biodiversity loss?
- 11) Differentiate ecological and ecosystem services.
- 12) Formula for biomass estimation.

