

- (d) “Flow of energy in an ecosystem is unidirectional.” Explain.
- (e) Explain homeostasis.
- (f) List any *four* initiatives that are required for eco-restoration of degraded land.
2. Define biomes. Explain the role of climate on the distribution of biomes. 10
3. Differentiate between any *four* of the following :
 $2\frac{1}{2} \times 4 = 10$
- (a) Weather and climate
- (b) Autotrophs and heterotrophs
- (c) Savannas and grassland
- (d) Inputs and outputs of an ecosystem
- (e) Bioconcentration and biomagnification
4. Describe noise and radiation pollution and discuss their adverse effects. $4+4+2=10$

Or

Discuss the important measures that have been taken by Government to control air pollution. 10

[3]

5. What are sedimentary biogeochemical cycles ?
Describe the sulphur cycle with suitable
diagram. 10
6. (A) Write short notes on any *two* of the
following : 2.5×2=5
- (a) Estuaries
 - (b) Detritus food chain
 - (c) Pyramid of numbers
 - (d) Greenhouse gases
- (B) When does overpopulation occur ?
Differentiate between people over-
population and consumption over-
population. 2+3=5