



# BIOLOGY

## BOOKS - TRUEMAN BIOLOGY

### Ecology

#### Assertion And Reason

1. [A] : Ecology is the study of interrelationship between living organisms and their non-living environment .

[R] : The biotic community and non-living environment of an area function together to form an ecosystem .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**





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2. [A] : A Population is a unit of evolution .

[R] : Natural selection operates at the Population level .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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3. [A] : The increasing daylength increases gonadal development in fishes , birds and mammals .

[R] : Photoperiod is an important factor in inducing diapause .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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4. [A] : The tropical rain forests are rich in biodiversity on this biosphere.

[R] : The low latitude humid tropics harbour the rain forest ecosystems .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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5. [A] : The community that ends in a succession is known as climax community .

[R] : For a species population in climax community to be stable , there must be a balance between natality and mortality .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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6. [A] : A biotic community exhibits adaptive radiation .

[R] : The organisms of different populations



have some features in common due to the effect of the same abiotic factors of the environment .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**





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7. [A] : Every biological system resists a change and wants to remain in a state of equilibrium .

[R] : Climax communities of an ecosystem are produced after several changes it has gone through succession .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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8. [A] : Allopatric species are geographically isolated whereas sympatric species coexist .

[R] : Allopatric species can be accepted as

separate species unless they pass the test of sympatry.

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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9. [A] : Natural populations are capable of an enormous and rapid increase in numbers but for the most part remain relatively constant in size .

[R] : Human interference has led to constancy in the size of the natural populations .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**10. [A] :** In mutualism both the individuals are benefitted .

**[R] :** Both individuals are benefitted by the

association but their relationship are not obligatory .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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11. [A] : Stenothermal species can tolerate narrow range of temperatures .

[R] : Geographic races of a species inhabiting cold regions are much smaller than the forms inhabiting the warmer regions .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A



C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**12. [A]** Eurythermic plants can withstand wide range of temperature .

**[R]** : A plant that grows successfully at moderate temperature is called mesothermic .

- A. If both A and R are true and R is the correct explanation of A
- B. If both A and R are true but R is not the correct explanation of A
- C. If A is true and R is false
- D. If both A and R are false

**Answer:**



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**13. [A] :** Light is the energy which is stored as chemical energy in the form of food during photosynthesis .

**[R] :** Light also influence various other activities of organisms such as photoperiodism etc .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**14. [A] :** Flora and Fauna of different parts of the world do not show uniform pattern of distribution .

**[R] :** This may be attributed to the presence of barriers between different parts of the world .

- A. If both A and R are true and R is the correct explanation of A
- B. If both A and R are true but R is not the correct explanation of A
- C. If A is true and R is false
- D. If both A and R are false

**Answer:**



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15. [A] : A species is an interbreeding population which is reproductively isolated from other similar but morphologically distinct populations .

[R] : Each species has its own niche which is not utilized exactly by another species .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**16. [A] :** Mimicry is a device adopted to protect the organism from its enemies

**[R] :** It helps the animal in self defence and survival .

A. 1) If both A and R are true and R is the correct explanation of A

B. 2) If both A and R are true but R is not the correct explanation of A

C. 3) If A is true and R is false

D. 4) If both A and R are false

**Answer:**



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17. [A] : Biological magnification is concentration of substances instead of being dispersed with each link in the chain .

[R] : Different food chains are not interlocked .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**18. [A] :** The rate of energy storage at consumer levels are referred to as primary productivities .

**[R] :** Net primary productivity is the total gross productivity and the energy used up in the metabolic process .

A. 1) If both A and R are true and R is the correct explanation of A

B. 2) If both A and R are true but R is not the correct explanation of A

C. 3) If A is true and R is false

D. 4) If both A and R are false

**Answer:**



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**19. [A]** : Primary productivity is shown by green plants only .

**[R]** : Primary productivity is also shown by chemosynthesizers .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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20. [A] : Energy pyramid is sloping .

[R] : The energy of one trophic level is lower than another level as we go up .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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21. [A] : The biotic community and the non living environment of an area function together to form a ecosystem .

[R]: The change in biotic components causes a change in abiotic components also.

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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22. [A] :Green plants are secondary consumers

[R]: Microconsumers break down the dead protoplasm into simpler ones They are first in the sequence of a food chain .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false



**Answer:**



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**23. [A] :** A food chain is a group of organism in which there is a transfer of food energy through a series of repeated eating and being eaten.

**[R] :** Interlocking pattern of several food chains is known as food web .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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24. [A] : Food chains are not paths of energy flow through an ecosystem.

[R]: Eventually all members of food chains do not die and decompose.

A. 1) If both A and R are true and R is the correct explanation of A

B. 2) If both A and R are true but R is not the correct explanation of A

C. 3) If A is true and R is false

D. 4) If both A and R are false

**Answer:**



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**25. [A] :** There is a gradual increase in the energy content at successive trophic level from producer to consumers .

**[R]:**When one organism benefits the other in a chain , it is called commensalism .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**26. [A] :** There is a gradual increase in the energy content at successive trophic level from producer to consumers .

[R] : Pyramid of energy does not show energy accumulation pattern at different trophic levels .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**





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27. [A] : Carbon monoxide is poisonous .

[R] : It destroys RBC .

- A. If both A and R are true and R is the correct explanation of A
- B. If both A and R are true but R is not the correct explanation of A
- C. If A is true and R is false
- D. If both A and R are false

**Answer:**



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**28. [A] :** An estimation of B.O.D gives an indication of the amount of pollution in a body of water .

**[R] :** B.O.D is measure of the oxygen requirements of the bacteria , which are living in the water .



- A. If both A and R are true and R is the correct explanation of A
- B. If both A and R are true but R is not the correct explanation of A
- C. If A is true and R is false
- D. If both A and R are false

**Answer:**



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29. [A] : PAN is a secondary pollutant .

[R] : The secondary pollutants are produced by the combination of primary emitted pollutants in the atmosphere .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**30. [A] :** Soil particles , particularly clay and organic matter in soil , contain negative charges that attract positively charged ions such as  $Ca^{++}$  ,  $K^{+}$  and  $Mg^{++}$

**[R] :** This attraction keeps these ions at a soil level where they are available to plants .

- A. If both A and R are true and R is the correct explanation of A
- B. If both A and R are true but R is not the correct explanation of A
- C. If A is true and R is false
- D. If both A and R are false

**Answer:**



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31. [A] : Algal blooms deplete dissolved  $O_2$  levels in polluted water bodies .

[R] : Bioproductivity of water bodies increases due to algal blooms .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**32. [A] :** Orchids are most threatened plants in tropics .

**[R] :** Tropical deforestation is the single cause for the rapid loss of orchids .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**33. [A] :** Vegetation in the catchment areas prevents flash floods in the down streams .

[R] : Flash floods are due to silting of river beds of surface run off .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**34. [A]** : Sedimentation which has been going on since the earth was formed is process of forming or accumulating sediment in layers,

**[R]** : Weathering and erosion of rocks produces an accumulation of particles that are similar in size and nature and are called sediment.

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**35. [A] :** When the organisms live together in such a manner that one organism benefitted , while other has no effects , it is called

commensalism .

[R] : In commensalism one partner derives benefit from the other partner without in any way benefitting or harming it .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**36. [A] :** Aerenchyma is a specialized tissue in some water plants characterized by thinwalled cells and intercellular spaces .

**[R] :** Crystals of some minerals are found as excretory products of plants .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**37. [A] :** The pyramid of biomass indicates the decrease or the gradual reduction in biomass at each trophic level from base to apex .

[R] : In case of parasites , the pyramid of biomass is inverted .

A. 1)If both A and R are true and R is the correct explanation of A

B. 2)If both A and R are true but R is not the correct explanation of A

C. 3)If A is true and R is false

D. 4)If both A and R are false

**Answer:**



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**38.** [A] : Climate is affected by vegetation .

[R] : The indirect factors in ecology are wind ,  
precipitation and rain .

A. If both A and R are true and R is the  
correct explanation of A

B. If both A and R are true but R is not the  
correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**39. [A] :** Man is the consumer of the ecosystem

.

**[R] :** An antiforest conservation activity is felling of trees .

A. 1) If both A and R are true and R is the correct explanation of A



B. 2) If both A and R are true but R is not the correct explanation of A

C. 3) If A is true and R is false

D. 4) If both A and R are false

**Answer:**



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**40. [A] :** The importance of ecosystem lies in flow of energy and cycling of materials .

[R] : Pollutants do not change the equilibrium of environment .

A. 1) If both A and R are true and R is the correct explanation of A

B. 2) If both A and R are true but R is not the correct explanation of A

C. 3) If A is true and R is false

D. 4) If both A and R are false

**Answer:**



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**41. [A] :** Biomonitoring is reliable for determining the pollutants in air , water and soil .

**[R] :** The living organism reacts to minute changes in the environment .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**42. [A]** : The food webs are very important in maintaining the stability of an ecosystem in nature .

**[R]** : The decrease in the population of rabbit would naturally cause an increase in the

population of alternative herbivores e.g. ,  
mouse .

A. If both A and R are true and R is the  
correct explanation of A

B. If both A and R are true but R is not the  
correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**43. [A]** : If phytoplanktons are destroyed in the sea then it will effect the food chain .

**[R]** : The best source of renewable energy is tree .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**44.** [A] : Epiphytes are not found in Delhi .

[R] : Delhi has semi-arid climate .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**45. [A] :** Water logged soils are physiologically dry .



[R] : When the soil is logged with water there is no space for oxygen in the soil atmosphere .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**46.** [A] : There is a chemical warfare amongst some plants .

[R] : The roots or decomposing litter exudates some toxic materials which keep the other plants out of its sphere of influence .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**47. [A]** : Total biomass on land is much more than that in water .

**[R]** : The fossil records show that there have been great climatic changes on the land surface .

- A. If both A and R are true and R is the correct explanation of A
- B. If both A and R are true but R is not the correct explanation of A
- C. If A is true and R is false
- D. If both A and R are false

**Answer:**



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**48.** [A] : Epiphytes differs from Lianas in that they are not rooted in the soil .

[R] : Epiphytes grow on trunks and trees .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**49. [A] :** Biological indicators enhance usefulness of ecology to mankind .

**[R] :** Their knowledge is useful in protection and reclamation along coasts , water purification nature conservation etc .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**50. [A] :** Depletion of ozone layer results in human disease like cancer .

**[R] :** Ozone layer absorbs UV radiations .

A. 1) If both A and R are true and R is the correct explanation of A

B. 2) If both A and R are true but R is not the correct explanation of A

C. 3) If A is true and R is false

D. 4) If both A and R are false

**Answer:**



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51. [A] : UV irradiation to disinfect polluted waters is not generally recommended .

[R] : It is not effective against most microorganisms

A. 1) If both A and R are true and R is the correct explanation of A

B. 2) If both A and R are true but R is not the correct explanation of A

C. 3) If A is true and R is false

D. 4) If both A and R are false

**Answer:**



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**52. [A] :** A species is an interbreeding population which is reproductively isolated from other similar but morphologically distinct populations .

**[R] :** Each species has its own niche which is not utilized exactly by another species .

- A. If both A and R are true and R is the correct explanation of A
- B. If both A and R are true but R is not the correct explanation of A
- C. If A is true and R is false
- D. If both A and R are false

**Answer:**



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53. [A] : Plants having capacity to withstand wide range of temperature tolerance are said to be eurythermic .

[R] : A plant that grows successfully at moderate temperatures is said to be mesothermic .

A. 1)If both A and R are true and R is the correct explanation of A

B. 2)If both A and R are true but R is not the correct explanation of A

C. 3) If A is true and R is false

D. 4) If both A and R are false

**Answer:**



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**54. [A] :** Each food-level in an ecosystem is called trophic level .

**[R] :** When an organism benefitted with affecting the other is called commensalism .

A. 1) If both A and R are true and R is the correct explanation of A

B. 2) If both A and R are true but R is not the correct explanation of A

C. 3) If A is true and R is false

D. 4) If both A and R are false

**Answer:**



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55. [A] : Biomonitoring is reliable for determining the pollutants in air , water and soil .

[R] : The living organism reacts to minute changes in the environment .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**56.** Assertion (A) : Tropical rain forests are disappearing fast from developing countries such as India.

Reason ( R ) : No value is attached to these forests because these are poor in biodiversity.



- A. If both A and R are true and R is the correct explanation of A
- B. If both A and R are true but R is not the correct explanation of A
- C. If A is true and R is false
- D. If both A and R are false

**Answer:**



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57. [A] : Leaf butterfly & stick insect show mimicry to dodge their enemies .

[R] : Mimicry helps to acquire body colour blending with the surroundings .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**58. [A]** : In a food chain , member of successive higher levels are fewer in number .

**[R]** : Number of organisms at any trophic level depends upon the availability of organisms which serve as food at the lower level .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**59.** Assertion (A) : Methane component of greenhouse gases contributing to global warming is about 20 per cent.

Reason (R) : Introduction of multi-point fuel injection engines in automobiles has decreased methane content in the exhausts.

A. 1) If both A and R are true and R is the correct explanation of A

B. 2) If both A and R are true but R is not the correct explanation of A

C. 3) If A is true and R is false

D. 4) If both A and R are false

**Answer:**





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**60.** Assertion: Suspended particulate matter (SPM) is an important pollutant released by diesel vehicles.

Reason : Catalytic convertes greatly reduce pollution caused by automobiles.

A. 1) If both A and R are true and R is the correct explanation of A

B. 2) If both A and R are true but R is not the correct explanation of A

C. 3) If A is true and R is false

D. 4) If both A and R are false

**Answer:**



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**61.** Assertion : Age sex structure of human population in countries like France and Germany gives a steep pyramid.

Reason : In countries like Sudan and India, the population is increasing at a rapid rate.

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**62.** Assertion (A) : Presently, the global atmosphere is warming up.

Reason (R): The depletion of stratospheric ozone layer has resulted in increase in ultraviolet radiations reaching the Earth.

A. 1) If both A and R are true and R is the correct explanation of A

B. 2) If both A and R are true but R is not the correct explanation of A

C. 3) If A is true and R is false

D. 4) If both A and R are false

**Answer:**



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**63. [A] :** Ozone depletion at the south pole will threaten world's fisheries .

**[R] :** Ozone depletion will kill phytoplankton , the food of fishes .

A. 1) If both A and R are true and R is the correct explanation of A

B. 2) If both A and R are true but R is not the correct explanation of A

C. 3) If A is true and R is false

D. 4) If both A and R are false

**Answer:**



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**64.** [A] : Inquilines can not survive without human care .

[R] : Cultigens can flourish without human care .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**65. [A] :** Problems of ecological environment arise from over population.

**[R] :** Over population results in depletion of natural resources more quickly and cause pollution also .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**66. [A] :** Social forestry programme is grows trees for fuel , fodder & fruits in rural areas .

[R] : Production plantation grows trees for use in industries .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**67. [A] :** Cultigens (domesticated animals & cultivated plants ) are not included in wild life .

**[R] :** They flourish only under human care .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false



**Answer:**



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**68.** [A] : Population density of indicator organisms show degree of water pollution .

[R] : BOD is an index of organic waste in water

.

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**69. [A] :** Traffic Jams cause giddiness , reduced vision , exhaustion etc .

[R] : Carbon monoxide from vehicles reduces  $O_2$  carrying capacity of haemoglobin .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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70. [A] : Thermal pollution is harmful to fishes .

[R] : Heating causes deoxygenation of water .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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71. [A] : Stratosphere is an excellent region for air travel .

[R] : Because it is poor in oxygen & rich in ozone .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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72. [A] : Using dung as fuel greatly reduces grain production .

[R] : Dung used as manure increases crop yield

.

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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**73.** Assertion : Lichens are a pioneer community in the temperate region.

Reason : Blue-green algae grow as the pioneer community in the tropical region.

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false



D. If both A and R are false

**Answer:**



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**74.** Read the given statement and select the correct option.

Statement 1: Global water cycle does not involve the living organisms.

Statement 2 : In global water cycle. Water

circulates between hydrosphere and atmosphere.

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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75. [A] : Life occurs upto 15000 m in the air on mountains .

[R] : At great heights  $CO_2$  &  $O_2$  volume percentage is too little & temperature is very low .

A. If both A and R are true and R is the correct explanation of A

B. If both A and R are true but R is not the correct explanation of A

C. If A is true and R is false

D. If both A and R are false

**Answer:**



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