

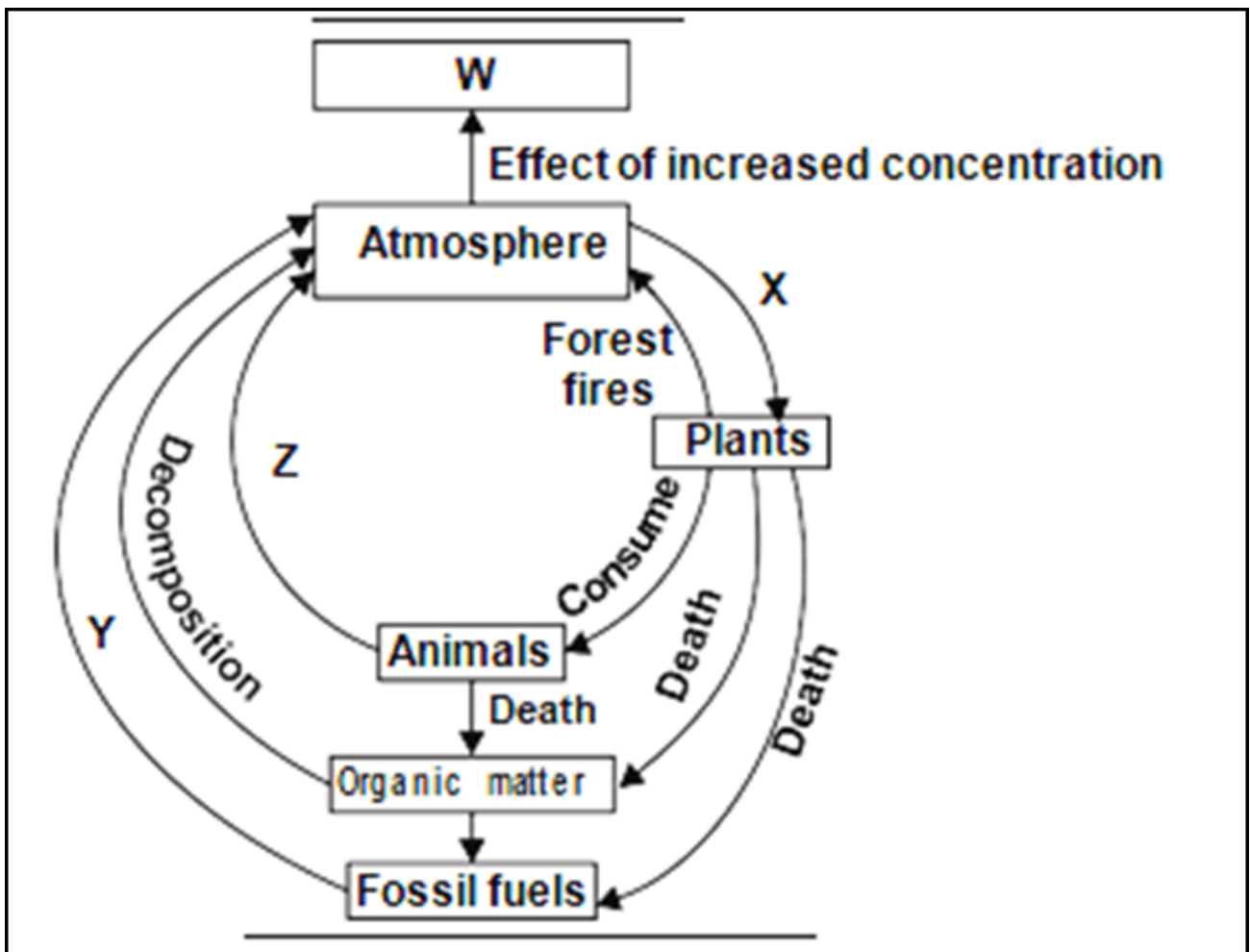
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NSO Level 2 Class 9 Science Paper 2012 - 13 Questions and Answer Part 4

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Question 44 Refer the given biogeochemical cycle of 'P' and select the correct option regarding it.



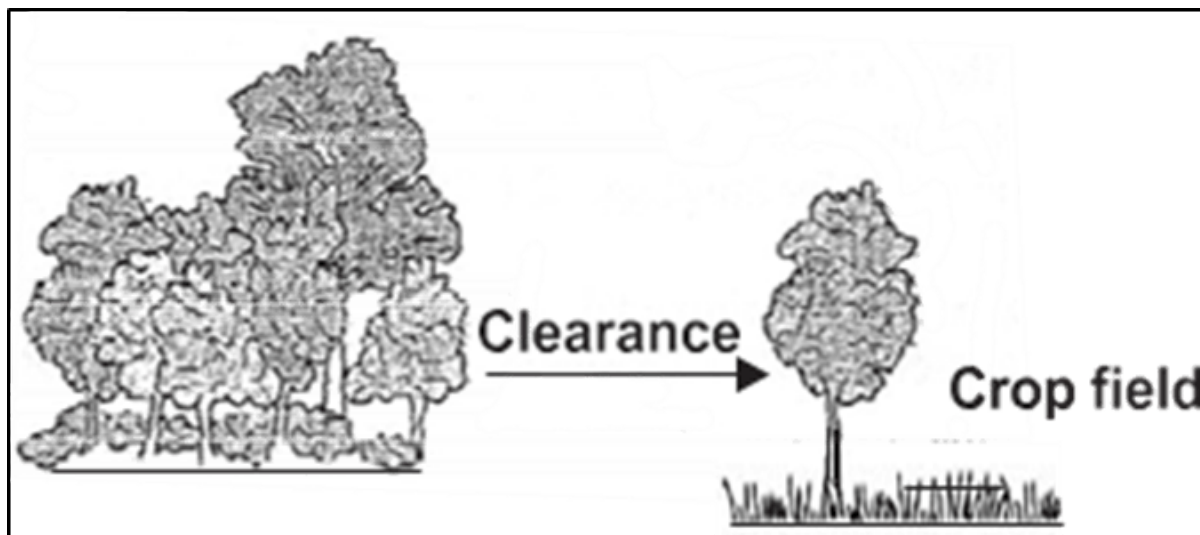
A. P is carbon dioxide; X is photosynthesis and W is acid rain.

B. P is nitrogen; Y is combustion and W is acid rain.

C. P is carbon dioxide; X is photosynthesis and W is global warming.

D. P is nitrogen; X is photosynthesis and Z is respiration.

Question 45 The given diagram shows a tropical forest before and after the clearance, for agricultural use. Which of the following could be the outcome of this clearance?



(A) Soil will turn saline because minerals present in soil will be used less.

(B) Desertification will occur because all plants are removed.

(C) Soil erosion will speed up because larger trees hold more soil than small plants.

(D) Soil will become waterlogged because crop fields are regularly irrigated.

Question 46 Read the given statements.

(a) _____ are collectively called _____ as all of these are seedless plants and have inconspicuous reproductive organs.

(b) _____ are collectively called as _____ they are seeded plants and possess conspicuous reproductive organs.

(c) The scientific nomenclature of organisms used today, was developed by _____ and consists of _____ and species name.

(d) Class Aves consists of _____ animals while class Reptilian consists of _____ animals.

Select the option which correctly fills the blanks in any two of the above statements.

(A) (a) - Bryophytes and pteridophytes; Cryptogams

(b) - Gymnosperms and angiosperms; Phanerogams

(B) (c) Bentham; Genus

(d) Warm-blooded; Cold blooded

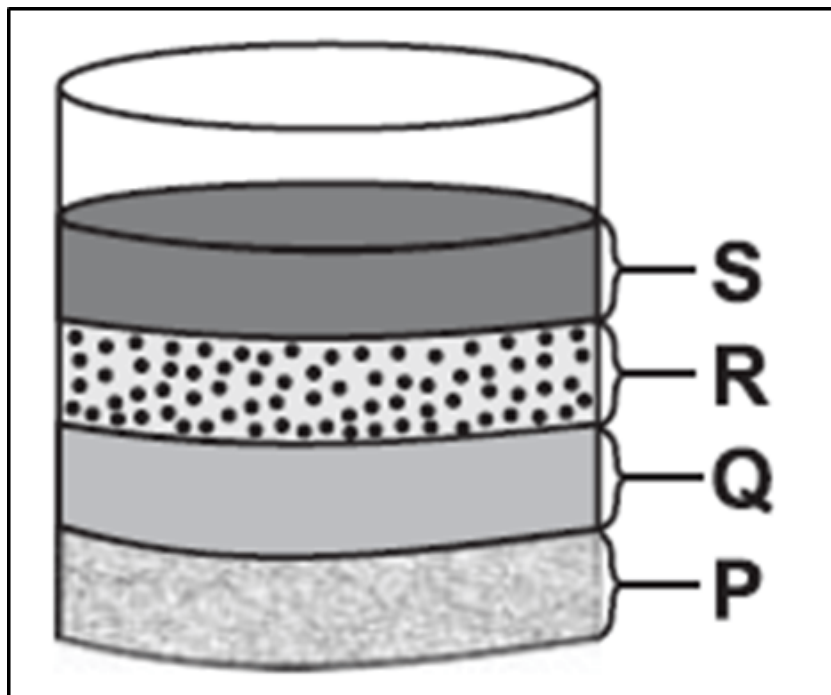
(C) (b) - Gymnosperms and angiosperms; Cryptogams

(c) - Carolos Linnaeus; Class

(D) (a) - Algae, bryophytes and pteridophytes; Cryptogams.

(d) - Warm blooded; Coldblooded.

Question47 Some garden soil is put into a beaker containing water, stirred well and left steady to settle down. After some time, different layers of soil components, P, Q, R and S are seen in the beaker. Select the option which correctly identifies different soil components.



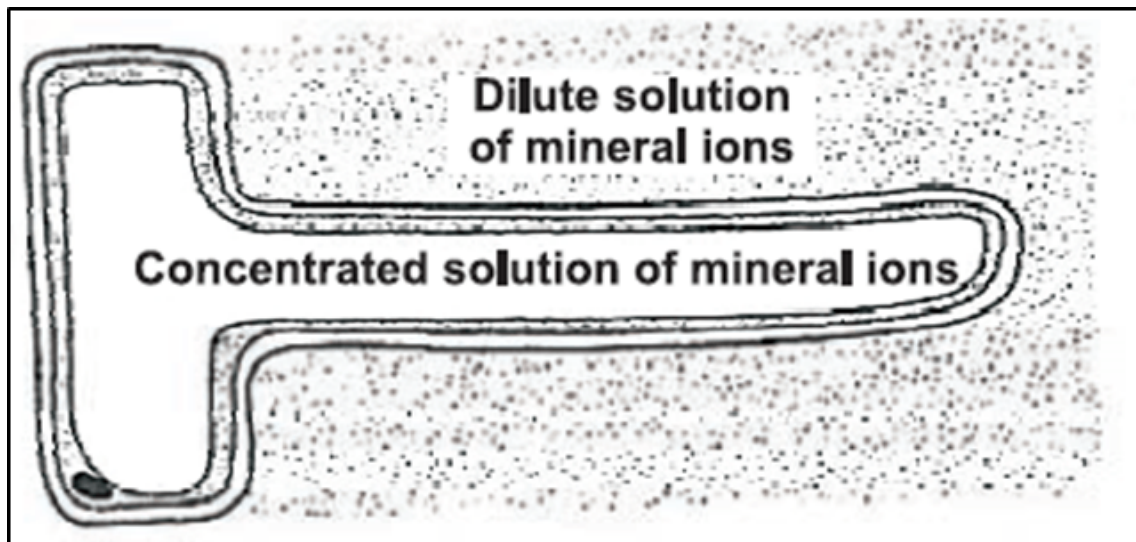
(A) P-Gravel, Q-Sand, R-Silt, S-Suspended clay

(B) P- Sand, Q-Gravel, R-Silt, S-Suspended clay

(C) P- Gravel, Q-Silt, R-Sand, S-Suspended clay

(D) P- ravel, Q-Silt, R-Suspended clay, S-Sand

Question 48 Refer the given diagram which shows a root hair cell, surrounded by a dilute solution of mineral ions. The mineral ions will move_.



(A) Against the concentration gradient by diffusion or osmosis

(B) Against the concentration gradient by active transport

(C) Along the concentration gradient by diffusion or osmosis

(D) Along the concentration gradient by active transport

Question 49 X = An indigenous milch breed of cow, Y = An exotic milch breed of cow Z = A high milk – yielding cross-breed of cow. identify X, Y and Z and select the correct option.

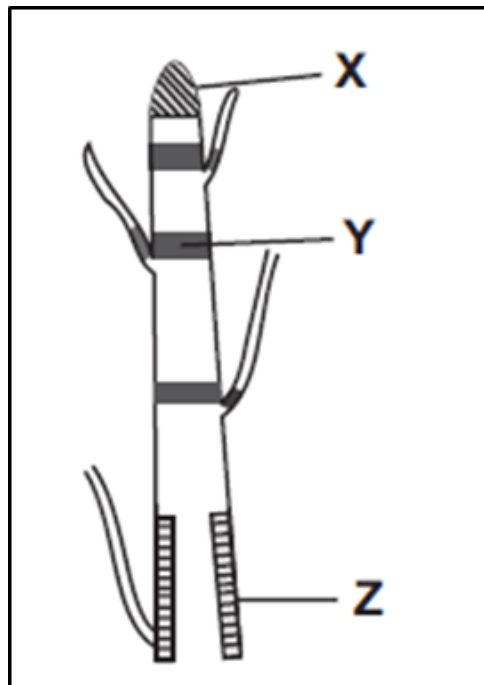
(A) X-Murrah; Y-Ayrshire; Z-Karan-Fries

(B) X-Surti; Y-Jersey; Z-Frieswal

(C) X-Sahiwal; Y-Karan-Swiss; Z-Ayrshire

(D) X-RedSindhi; Y-Ayrshire; Z-Karan-Fries

Question 50 Refer the given figure showing plant meristems and select the incorrect option regarding this.



- (A) If part X is removed, side branches will grow well, and the plant will become short and bushy in appearance.
- (B) If part Y is removed, internode elongation will not occur, and leaves and flowers will not be produced at all.
- (C) If part Z is removed, a mango tree stem will remain as thin as a mustard plant.
- (D) Both (A) and (C)