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NEET ECOSYSTEM — NUTRIENT CYCLING: CARBON AND PHOSPHORUS (OLD SYLLABUS) — PYQS

Max. Marks: 32 **Questions:** 8

Section A (MCQ) — 8 questions

Q.1 Which one of the following will accelerate phosphorus cycle? [NEET (UG) 2022]

(1) Burning of fossil fuels
(2) Volcanic activity
(3) Weathering of rocks
(4) Rainfall and storms

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Q.2 Match **List - I** with **List - II** :

List - I		List - II	
a.	Carbon dissolved in oceans	i.	55 billion tons
b.	Annual fixation of carbon through photosynthesis	ii.	71%
c.	PAR captured by plants	iii.	4×10^{13} kg
d.	Productivity of oceans	iv.	2 to 10%

Choose the correct answer from the options given below: [NEET (UG) 2022 (Phase 2)]

(1) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)
(2) (a)-(ii), (b)-(iv), (c)-(iii), (d)-(i)
(3) (a)-(iii), (b)-(iv), (c)-(ii), (d)-(i)
(4) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)

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Q.3 The amount of nutrients, such as carbon, nitrogen, phosphorus and calcium present in the soil at any given time, is referred to as : [NEET (UG) 2021]

(1) Standing crop (2) Climax
(3) Climax community (4) Standing state

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Q.4 In which of the following both pairs have correct combination? [AIPMT 2015]

(1)

Gaseous nutrient cycle	Carbon and Sulphur
Sedimentary nutrient cycle	Nitrogen and Phosphorus

(2)

Gaseous nutrient cycle	Sulphur and Phosphorus
Sedimentary nutrient cycle	Carbon and Nitrogen

(3)

Gaseous nutrient cycle	Nitrogen and Sulphur
Sedimentary nutrient cycle	Carbon and Phosphorus

(4)

Gaseous nutrient cycle	Carbon and Nitrogen
Sedimentary nutrient cycle	Sulphur and Phosphorus

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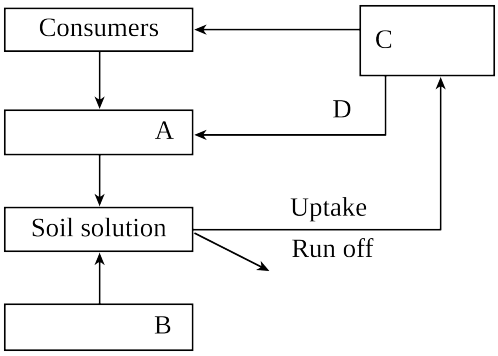
Q.5 Given below is a simplified model of phosphorus cycling in a terrestrial ecosystem with four blanks (A-D). Identify the blanks. [AIPMT 2014]



(1) A ⟶ Detritus, B ⟶ Rock minerals, C ⟶ Producer, D ⟶ Litter fall
(2) A ⟶ Litter fall, B ⟶ Producers, C ⟶ Rock minerals, D ⟶ Detritus
(3) A ⟶ Rock minerals, B ⟶ Detritus, C ⟶ Litter fall, D ⟶ Producers
(4) A ⟶ Producers, B ⟶ Litter fall, C ⟶ Rock minerals, D ⟶ Detritus

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Q.6 Natural reservoir of phosphorus is : [NEET 2013]

(1) Fossils (2) Rock

(3) Sea water (4) Animal bones

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Q.7 Which one of the following is not a gaseous biogeochemical cycle in ecosystem? [AIPMT 2012 (Prelims)]

(1) Sulphur cycle (2) Nitrogen cycle

(3) Phosphorus cycle (4) Carbon cycle

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Q.8 About 70% of total global carbon is found in: [AIPMT 2008]

(1) Grasslands (2) Agroecosystems

(3) Oceans (4) Forests

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8			
Ans.	**3**	**4**	**4**	**4**	**1**	**2**	**3**	**3**			