Total No. of Questions: 3 Total No. of Printed Pages:2

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## Faculty of Pharmacy

## End Sem (Even) Examination May-2022 PY3HS02 Environmental Sciences

к	nowledge is Po	Programme: B. Pharma. Branch/Specialisation: Pharm	nacy
Dura	tion: 3	Hrs. Maximum Mark	s: 5
Note:	All que	estions are compulsory. Internal choices, if any, are indicated.	
Q.1	i.	Name the largest freshwater resource on the earth.	1
	ii.	Which type of biodiversity will not occur between two tigers found in Sundarban and in Karnataka.	1
	iii.	NGT stands for Also mention the year in which it has been formed.	1
	iv.	Name any one soil reclamation technique.	1
	v.	Electrostatic precipitation is a remedy for which type of pollution?	1
	vi.	Which one has more biodiversity? (Aquatic or Terrestrial)	1
	vii.	Name the types of biodiversity.	1
	viii.	Name any three mineral resources found in Madhya Pradesh.	1
	ix.	Name the measure by which odour of water can be categorized.	1
	х.	Which type of hardness can be generated by NaHCO <sub>3</sub> .	1
Q.2		Attempt any two:	
	i.	Define the nature. Also state importance of different discipline in environmental studies.	5
	ii.	Discuss the problems associated with water and food resources with their remedies.	5
	iii.	(a) How the forest and mineral resources can be conserved? Give three solutions for each.	5
		(b) Give any two reasons for land degradation.	
Q.3		Attempt any six: Two questions from each section is compulsory.  Section - A	
	i.	Define ecosystem. What is structure and functions of ecosystem?	5
		P.T.	.O.

## [2]

ii.	What are different stages and types of ecological succession?	
iii.	Write down structure and function of desert ecosystem.	
	Section - B	
iv.	Discuss any five measures to reduce water pollution.	5
v.	What are the sources of air pollution? Also write its effect on	5
	humans.	
vi.	Write the types and features of grassland ecosystem.	5
	Section - C	
vii.	What are the characteristic features of aquatic ecosystem?	5
viii.	Define ecological succession and various factors affecting it.	
ix.	Draw the energy distribution pyramid for an ecosystem and	5
	explain each level.	

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## **Marking Scheme PY3HS02 Environmental Sciences**

ii. Species biodiversity 1 Mark 1 iii. National Green Tribunal (2010) 1 Mark 1 iv. Leacing 1 Mark 1 v. Air pollution 1 Mark 1 vi. Aquatic 1 Mark 1 vii. Species, Ecological, Genetic 1 Mark 1 viii. Mangnese, Copper, Coal, Al, Bawcite, Calcium rock phosphate, Marble, etc(Any 3) 1 Mark ix. TON Threshold odour number 1 Mark 1 x. Temporary 1 Mark 1  Q.2 Attempt any two: i. Definition 2 Marks 5 Importance 3 Marks ii. Problems Statement 5 Marks 5 iii. (a) 3 conservation solution 3 Marks (b) 2 reasons for land degradation. 2 Marks
iv. Leacing v. Air pollution vi. Aquatic vi. Aquatic vii. Species, Ecological, Genetic viii. Mangnese, Copper, Coal, Al, Bawcite, Calcium rock phosphate, Marble, etc(Any 3) viii. TON Threshold odour number viiii. Ton Threshold odour number viiii. Ton Threshold odour number viiii. Ton Threshold odour number viiiii. Ton Threshold odour number viiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
v. Air pollution 1 Mark 1 vi. Aquatic 1 Mark 1 vii. Species, Ecological, Genetic 1 Mark 1 viii. Mangnese, Copper, Coal, Al, Bawcite, Calcium rock phosphate, Marble, etc(Any 3) 1 Mark ix. TON Threshold odour number 1 Mark 1 x. Temporary 1 Mark 1  Q.2 Attempt any two: i. Definition 2 Marks 5 Importance 3 Marks ii. Problems Statement 5 Marks 5 iii. (a) 3 conservation solution 3 Marks 5
vi. Aquatic vii. Species, Ecological, Genetic viii. Mangnese, Copper, Coal, Al, Bawcite, Calcium rock phosphate, Marble, etc(Any 3) 1 Mark ix. TON Threshold odour number 1 Mark 1 x. Temporary 1 Mark 1 Q.2 Attempt any two: i. Definition 2 Marks Importance 3 Marks ii. Problems Statement 5 Marks 5 iii. (a) 3 conservation solution 3 Marks 5
vii. Species, Ecological, Genetic 1 Mark 1 viii. Mangnese, Copper, Coal, Al, Bawcite, Calcium rock phosphate, Marble, etc(Any 3) 1 Mark ix. TON Threshold odour number 1 Mark 1 x. Temporary 1 Mark 1  Q.2 Attempt any two: i. Definition 2 Marks 5 Importance 3 Marks ii. Problems Statement 5 Marks 5 iii. (a) 3 conservation solution 3 Marks 5
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Marble, etc(Any 3)  ix. TON Threshold odour number  x. Temporary  1 Mark  1  Q.2 Attempt any two:  i. Definition  problems Statement  ii. Problems Statement  iii. (a) 3 conservation solution  1 Mark  1 Mark
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ii.Problems Statement5 Marks5iii.(a) 3 conservation solution3 Marks5
iii. (a) 3 conservation solution 3 Marks 5
(1)
0.3 Attempt any six: Two questions from each section is compulsory
Q.3 Attempt any six: Two questions from each section is compulsory.  Section - A
i. Definition 2 Marks 5
Structural ecosystem 1 Mark
Functional ecosystem 1 Mark
Example 1 Mark
ii. Stages of ecological succession 2 Marks 5
Example and illustration 0.5 Mark
Types of ecological succession 2 Marks
Example and illustration 0.5 Marks
iii. Structure of desert ecosystem. 2 Marks 5
Example and illustration 0.5 Mark
Function of desert ecosystem. 2 Marks
Example and illustration 0.5 Mark
Section - B
iv. 5 measures 1 Mark each 5
(1 Mark*5)

	v.	Sources of air pollution	3 Marks	5
		Effect on humans.	2 Marks	
	vi.	Types of grassland ecosystem.	2 Marks	5
		Example and illustration	0.5 Mark	
		Features of grassland ecosystem.	2 Marks	
		Example and illustration	0.5 Mark	
		Section - C		
	vii.	Features of aquatic ecosystem	5 Marks	5
	viii.	Definition	2 Marks	5
		Factors affecting	3 Marks	
ix. Producer (100%), Primary consumer (10%), Secondary consu		ndary consumer	5	
		(1%), Tertiary consumer (0.1%)	4 Marks	
		Diagram	1 Mark	

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