



Chhatrapati Shahu Ji Maharaj
University, Kanpur

Answer Script Details
Barcode 3176103

Roll No. 24062000472
Total Mark 54/75.00

Exam MASTER OF SCIENCE_ODD EXAM-DEC-24
Subject B040704T - PLANT ECOLOGY

Question wise Mark Summary

Q.No Mark Q.No Mark Q.No Mark Q.No Mark

1A 2/5 8 13/15

1B 2/5 9 NA/15

1C 2/5

1D 2/5

1E 2/5

1F 5/5

1G 4/5

1H 4/5

1I 5/5

2 NA/15

3 13/15

4 NA/15

5 NA/15

6A NA/5

6B NA/5

6C NA/5

7 NA/15

Chhatrapati Shahu Ji Maharaj University Kanpur, Uttar Pradesh

PART-I

Date of Exam: 15/01/25 Shift: 2 Room No: 24

Paper Co: 6040704J Subject: New ecology Year/Sec: I

Name of Candidate: NANCY RATHI

Roll No: 24062000472


 Signature of Candidate

 Signature of Investigator

 Signature of Examiner

PART-II

MARKS OBTAINED										
Q.	1	2	3	4	5	6	7	8	9	10
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5040704T

Paper Code

Signature of Evaluator

PART-III

Course: Master of science (BOTANY)

Session: 2024-25 Year/Semester: V I

Subject: Plant Ecology

Paper Code

B 0 4 0 7 0 4 T

Exam Date

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Name of Candidate

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College Code

परीक्षा केंद्र सं. का
Exam Centre Code

परीक्षा का प्रकार
Type of Exam

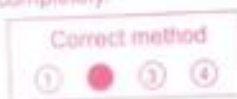
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INSTRUCTIONS TO THE CANDIDATE FOR FILLING PART-I

1. Read the instructions carefully given on the answer script and admit card.
2. Write Date of Exam, Shift, Paper Code & Name of Subject Correctly.
3. Write Name & Roll No. Correctly.
4. Write Semester & Branch Correctly.

INSTRUCTIONS TO THE CANDIDATE FOR FILLING PART-III

1. Use blue or black ball point pen for writing alphabets & numerals in Boxes.
2. Carefully study the example before you start marking.
3. As shown in the example below blacken the circles completely.



4. Make no Stray marks on this sheet.
5. **DO NOT WRITE OR MARK ON THE BAR CODE.**

IN ORDER TO AVOID UFM (UNFAIR MEANS):

1. The Roll No. and Answer Book no. found elsewhere or any other symbol found in the answer book will be treated as unfair means.
2. Any tempering of Bar Code and Booklet no shall be treated as Unfair Means.
3. Do Not bring the materials like slip of paper/mobile/digital diaries/ study material/ revision notes in examination hall. Possession of the mobiles/ digital diaries/ electronic watch and any other electronic gadget except memory less scientific calculator shall be considered as UFM case.
4. Do not keep or paste currency note in answer script it shall be consider as UFM.

अनुचित साधन से बचने हेतु:

1. उत्तर पुस्तिका के निर्देशित स्थान को छोड़कर अनुक्रमिक एवं उत्तरपुस्तिका का क्रमिक नहीं और न लिखे तथा कोई भी चिन्ह न बनाये क्योंकि यह अनुचित साधन प्रयोग की परिधि में आता है।
2. उत्तर पुस्तिका के बारकोड अथवा उत्तर पुस्तिका संख्या पर छेद करने पर अनुचित साधन प्रयोग माना जावेगा।
3. परीक्षा कक्ष में निम्न वस्तुएं साथ न लाये, जैसे लिखे हुए कागज के टुकड़े, नोटबुक, डिजिटल घाघरी, कोपी, पुस्तक यह सभी वस्तुएं जो अनुचित साधन के अन्तर्गत आती है। केवल संबंधित प्रश्नपत्र में ही मंगेरी लेस साइटफिक कंप्यूटेटर ले जाने की अनुमति होगी।
4. उत्तर पुस्तिकाओं में स्वयं न रखें न ही उत्तर पुस्तिका में चिपकाये। ऐसा करना अनुचित साधन प्रयोग की परिधि में आता है।

परीक्षार्थी के लिए निर्देश

1. प्रवेश पत्र एवं उत्तर पुस्तिका पर दिये गये निर्देशों को ध्यान से पढ़ें।
2. कवर पृष्ठ के दूसरी तरफ कुछ न लिखें।
3. उत्तर पुस्तिका के पृष्ठों पर दोनों तरफ लिखें।
4. प्रश्न पत्र पर अपने अनुक्रमांक के अतिरिक्त कुछ न लिखें।
5. प्रश्न पत्र कोड एवं प्रश्न पत्र कोड साक्यानी पूर्वक लिखें।
6. अपनी स्थिति स्पष्ट लिखें।
7. उत्तर पुस्तिका के पृष्ठों की संख्या देखें। अगर उत्तर पुस्तिका में पृष्ठ (1-24) से कम है या फटे हुए है, तो परीक्षा शुरू होने के पूर्व दूसरी उत्तर पुस्तिका ल लें।
8. प्रश्नपत्र को देख, यदि प्रश्नपत्र के विषय कोड, विषय का नाम तथा प्रश्न में कोई त्रुटि है तो उसके परीक्षा शुरू होने के 30 मिनट के अन्दर कागद निरीक्षक को तत्काल सूचित करें, उसके बाद विश्वविद्यालय द्वारा कोई कार्रवाई नहीं की जायेगी।
9. प्रश्नों के उत्तर लिखने के लिये बैसिल का प्रयोग न करें।
10. B कोपी या अतिरिक्त चाफ नहीं दिया जायेगा।

INSTRUCTIONS TO THE CANDIDATE

1. Read the instructions carefully given on the Question Paper Admit Card & Answer Script.
2. Do not write anything on back side of the cover page.
3. Write on both sides of pages of answer book.
4. Do not write anything on question paper except Roll Number.
5. Write Paper Code & Question Paper Id carefully.
6. CHECK the number of pages (1-32) or any other kind of damage in your answer script, if found than change the answer scrip immediately before the commencement of examination.
7. CHECK the Question Paper for any kind of discrepancy e.g. Subject Code, Subject Name and Question of the Question Paper during first THIRTY MINUTES of the commencement of the exam, so that it can be corrected in TIME. After that no corrections shall be entertained by the university.
8. Do not use pencil for answering the question.
9. Write status correctly e.g. those appearing in carry over paper should fill in status as Carry Over. Those appearing as Ex Students should fill in status as ex.
10. No supplementary answer book & graph paper will be provided.

INSTRUCTIONS TO THE CANDIDATE FOR FILLING PART-IV

1. Use blue or black ball point pen for writing alphabets & numerals in Boxes.
2. Use blue or black ball point pen for filling the circles.

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0	0	0	0	0	0	0	0	0	0	0
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2	2	2	2	2	2	2	●	2	2	2
3	3	3	3	3	3	●	3	3	3	3
4	4	4	4	4	●	4	4	4	4	4
5	5	5	5	●	5	5	5	5	5	5
6	6	6	6	6	6	6	6	●	6	6
7	7	7	7	7	7	7	7	7	7	7
8	8	●	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	●

Note - if your Roll No. is of 10 digits. Please leave first three columns



Section → A

Q.

Q(a.) → PAN (option b)

Q(b.) → Option a (Geographically limited area)

Q(c.) → Option b (Hydrach ✓ session)

Q(d.) → Option a (comm. ✓ g)

Q(e.) → Option d (James ✓ erford)

Qf.

Autogenic succession

↳ Autogenic succession is the succession in which environmental factors are change ✓ according to the plant or production ✓ according to the ✓

Allogenic succession

Allogenic succession is the succession in which due there is ✓ the changes due to ✓ the environmental ✓ factors. ✓ environmental ✓ factors are the one who play major role.



(g.)

Energy flow is unidirectional.

Energy ~~always~~ ~~flows~~ ~~from~~ ~~the~~ ~~or~~
moves ~~from~~ ~~to~~

(eg:- The flow of energy is from
plants → consumers → Secondary
(Producers) (Primary) consumers

↓
tertiary
consumers

Here we see that energy always flows in one direction. It moves to plants after that to consumers after that to secondary consumers after that to tertiary consumers. There is reverse flow of the energy.

Energy when flows from one trophic level to other it is seen the second trophic level always gets less percentage of energy ~~increase~~ than first trophical level; and ~~third~~ trophic level gets less energy ~~percentage~~ than second trophic level and ~~like~~ ~~for~~ like this so on. Why is that one might think. It is because ~~producers~~ ~~produce~~ some energy ^(heat) is lost by the organisms in every organism and some is used by them in their metabolic



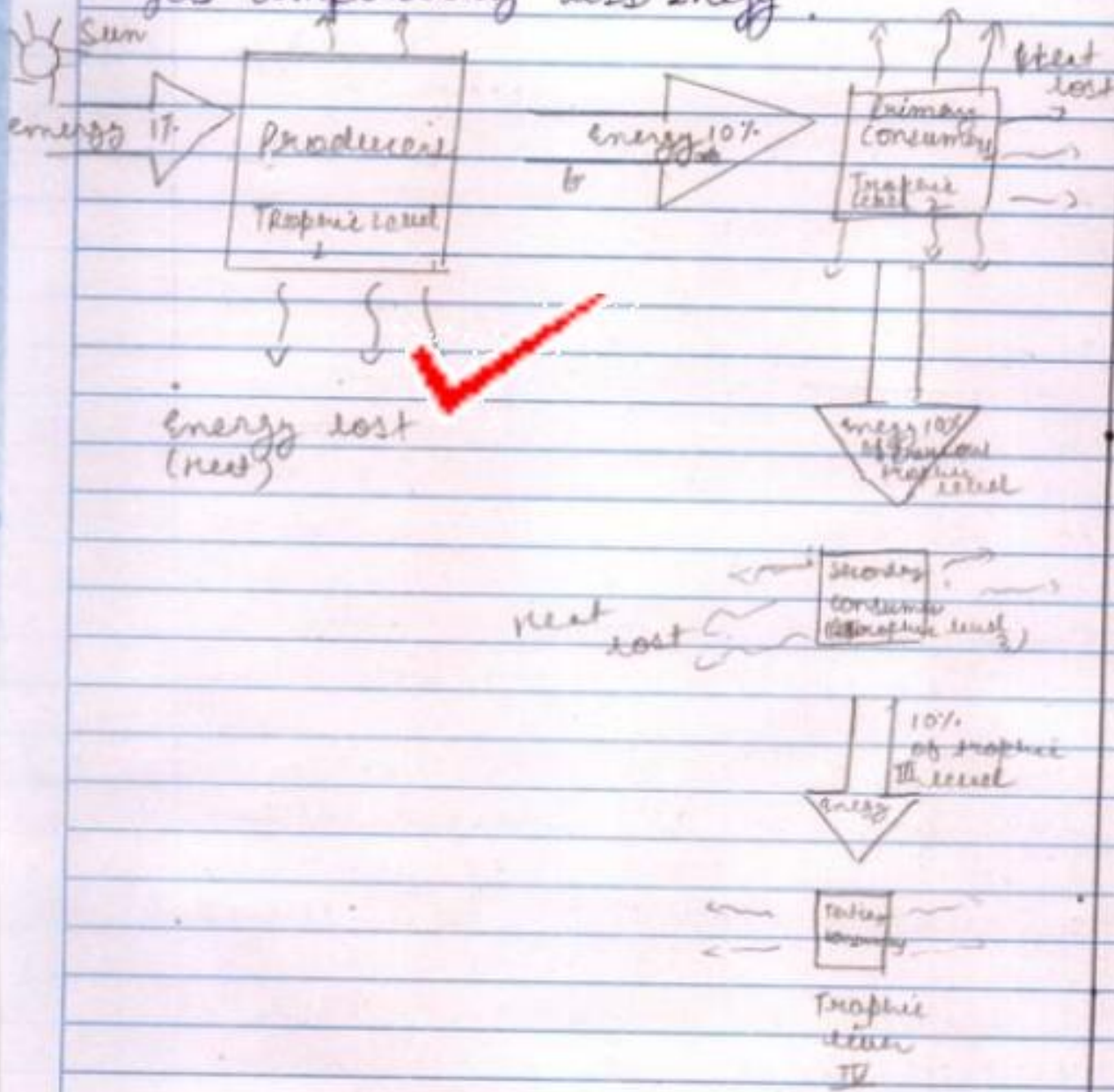
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03

activities therefore next trophic level gets comparatively less energy.



Pt 0



h.)

ecotype is called when the organisms who are different in physical appearance but due to certain adaptation or environmental changes their genetics are similar. ✓ can go from one generation to another.

clades are those when the physical appearance of the certain organisms are different but their genetic base is now changed due to certain factors, same.

ecotypes and clades both are widely seen in the population and when people immigrate or emigrate in certain places or certain part of the world these phenomenon are widely seen. As in ecotype genotype of the organisms are similar due to living in certain specific areas.

✓ Now their is the alteration in genotype, so now it is this change goes from one biological level to next biological generation to other (next generation). whereas clades can not be transferred from one generation to another it is only. In clades phenotype of the organisms is changed or altered it is not transferred to from one generation to other.



Paper Code

B 0 4 0 7 0 4 T



05

Ans (i) El Niño & La Niña → Cycle → ENSO
↳ Southern Oscillations

El Niño effect also called as

↳ Little boy

It was seen ~~in the~~ during the time of Christmas for the first time.

Due to the El Niño effect there is warmer temperature than usual in South Central Pacific Ocean region.

El Niño effect is reverse of what happens in normal cycle of the climate. therefore El Niño causes warming of the climate.
El Niño effect causes

- ↳ Excessive rain in South America Region
- ↳ Drought condition ~~well~~ in Australia

La Niña is called → Little girl (also called)
In La Niña there is colder climate than usual - it ~~increased~~ in central Pacific region

Diagrams in next page



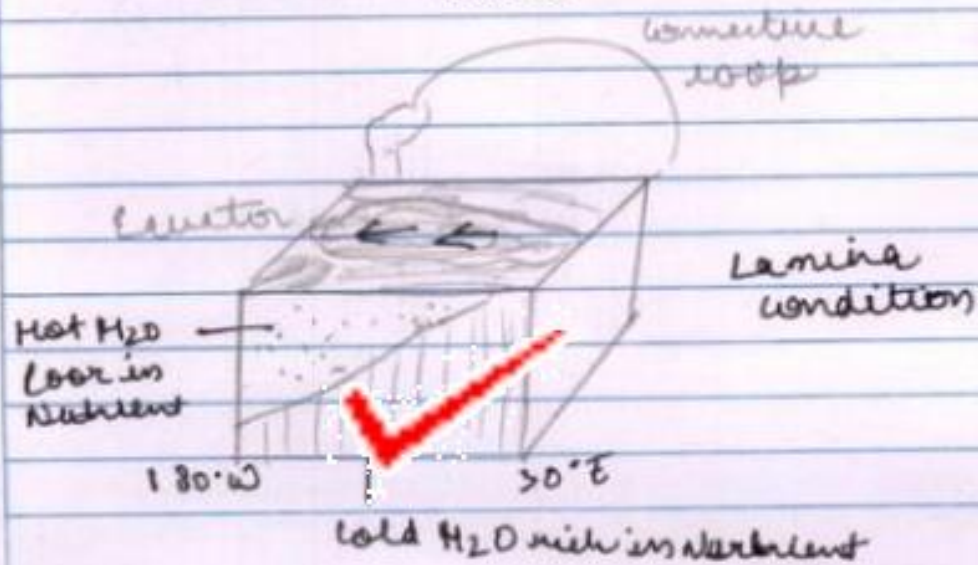
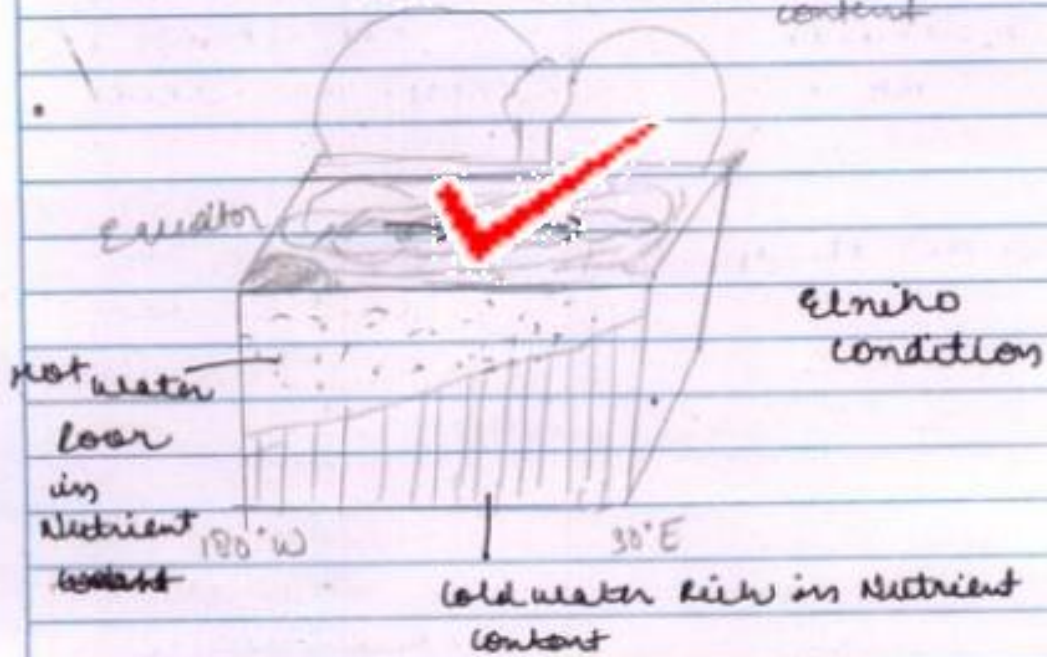
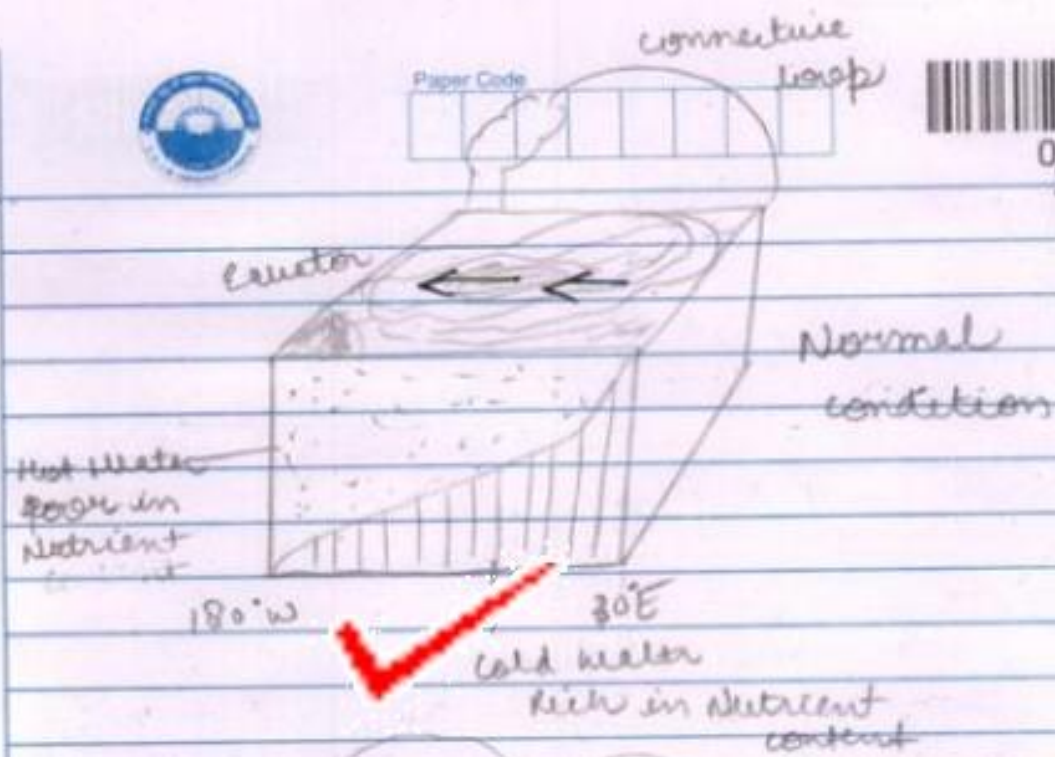
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connective loop



06





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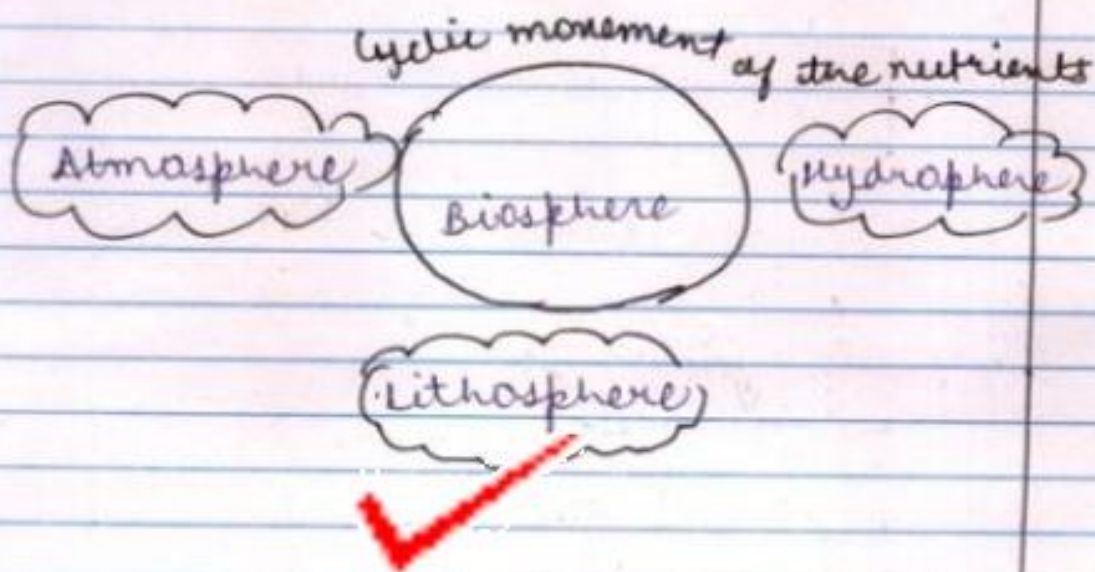


07

Section → BQ 3.Biogeochemical cycle

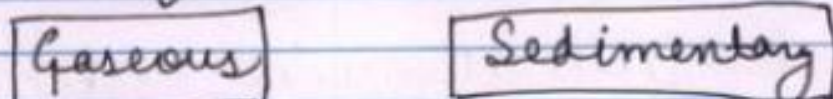
Bio means ^(living being) life, Geo means abiotic (earth); and chemical means nutrients; so the biogeochemical cycle is the cycle between ~~Bio~~ Biosphere, Lithosphere, Atmosphere, Hydrosphere.

Biogeochemical cycle is the movement or cyclic rotation of the nutrients ~~from~~ ~~area~~ among Biosphere, Lithosphere, Atmosphere and Hydrosphere.





Biochemical cycle are majority of two types :-



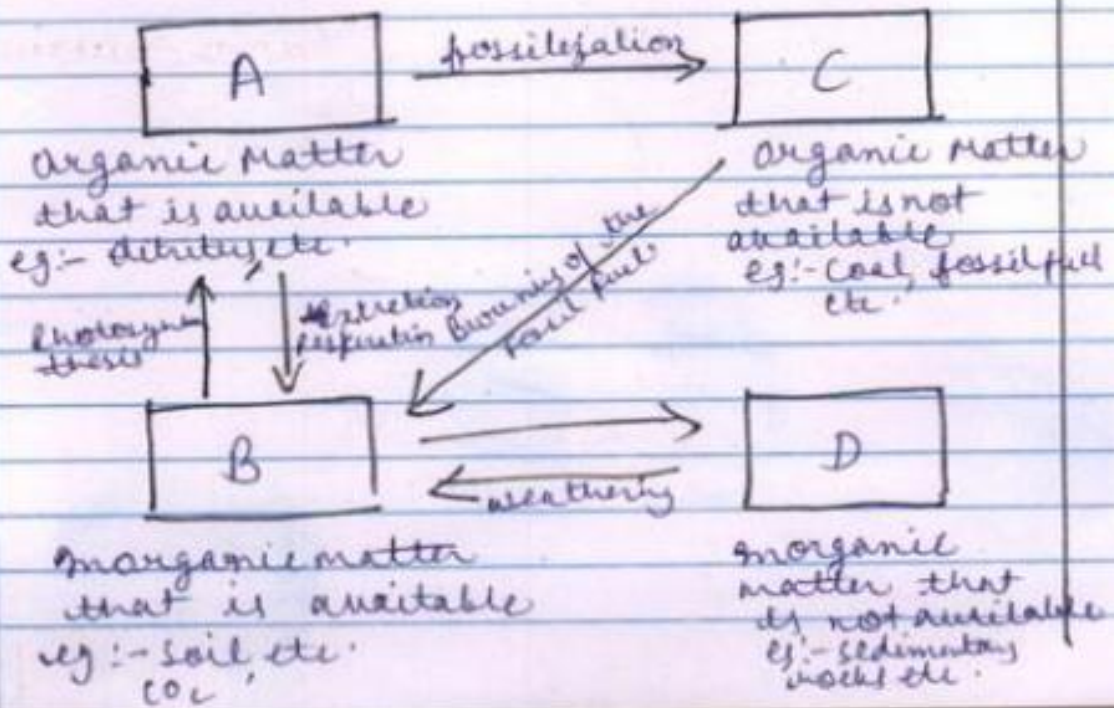
In the gaseous Biogeochemical cycle the reservoir is Atmosphere.

eg:- ~~SO₂~~ CO₂ & Nitrogen cycle

In this the reservoirs are rocks.

eg:- Sulphur cycle, Phosphorus cycle.

• Generally a biogeochemical cycle proceeds in following ways steps.





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Biogeochemical cycle are more important for the proper working of the ecosystem. all are alive and living properly because these biogeochemical cycles are doing their functions properly.

Example of the gaseous cycle

Nitrogen cycle

76% of Nitrogen present in the atmosphere and whole nitrogen cannot be used because plants use nitrogen in the form of Nitrates.

Nitrogen cycle consists of following steps:-

1. Nitrogen fixation
2. Ammonification
3. Nitrification
4. Assimilation
5. Denitrification

① Nitrogen fixation

Nitrogen is fixed by thunderstorms, volcanic eruption etc.

② Ammonification

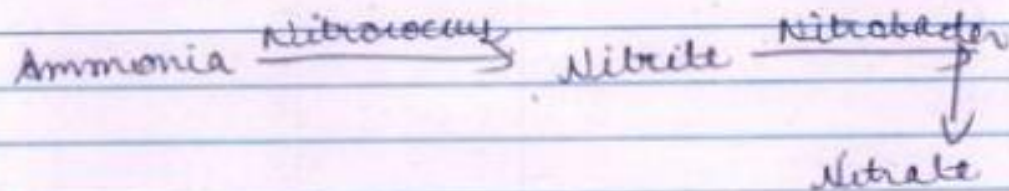
Nitrogen (as) is converted into Ammonia by



the help of decomposers.

(B) Nitrogen fixation Nitrification

Ammonia is converted into nitrite by the action of the bacterial Nitrosococcus. & Nitrite is converted into nitrate by the Nitrobacter bacteria.



(A) Assimilation

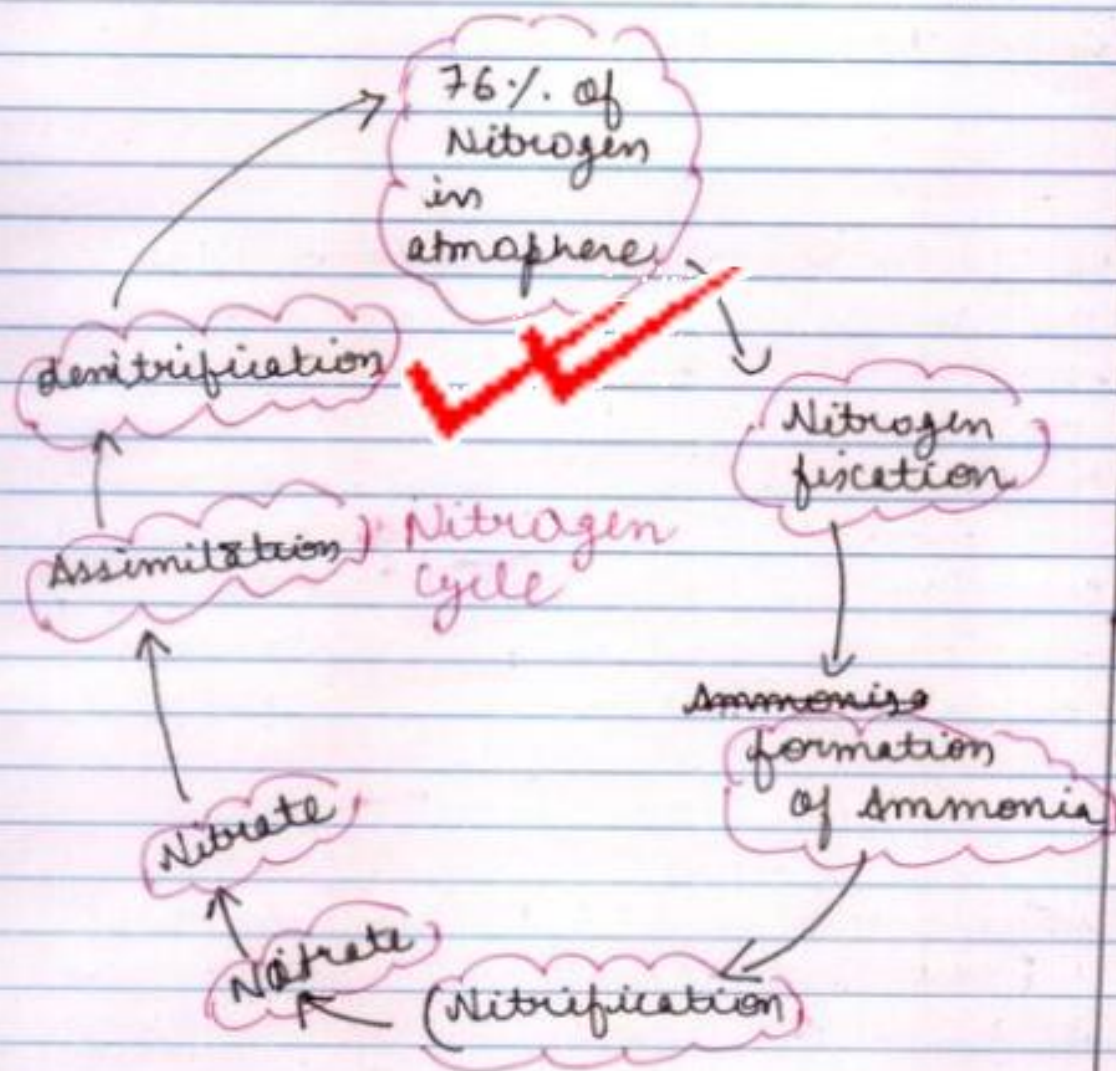
Now Nitrate as Nitrate Nitrogen is available for the plants it is used by the plants.

(C) Denitrification

denitrification of Nitrate is by the Nitrate reduction of Bacteria Pseudomonas.



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↳ Example of the Sedimentary cycle

Phosphorus cycle

Phosphorus cycle is the sedimentary cycle its reservoir is sediments. so it starts with



the weathering of the rocks.

Weathering of the rocks

Rocks which contain phosphorus they are not broken due to some natural phenomenon called weathering. From this weathering of rocks we get phosphorus which is now inorganic.

Phosphorus through river streams goes into the river settles down there. After some time in the deep ocean there are sediments of the phosphorus.

These sediments due to some geochemical activity or by some method there is

↳ geological uplift of the phosphorus.

Uptake by the plants

Now phosphorus is taken by the plants plants ~~to go~~ which is now taken by animals as plants feed upon animals for their food so phosphorus is now in animals ~~it~~ reaching the plant

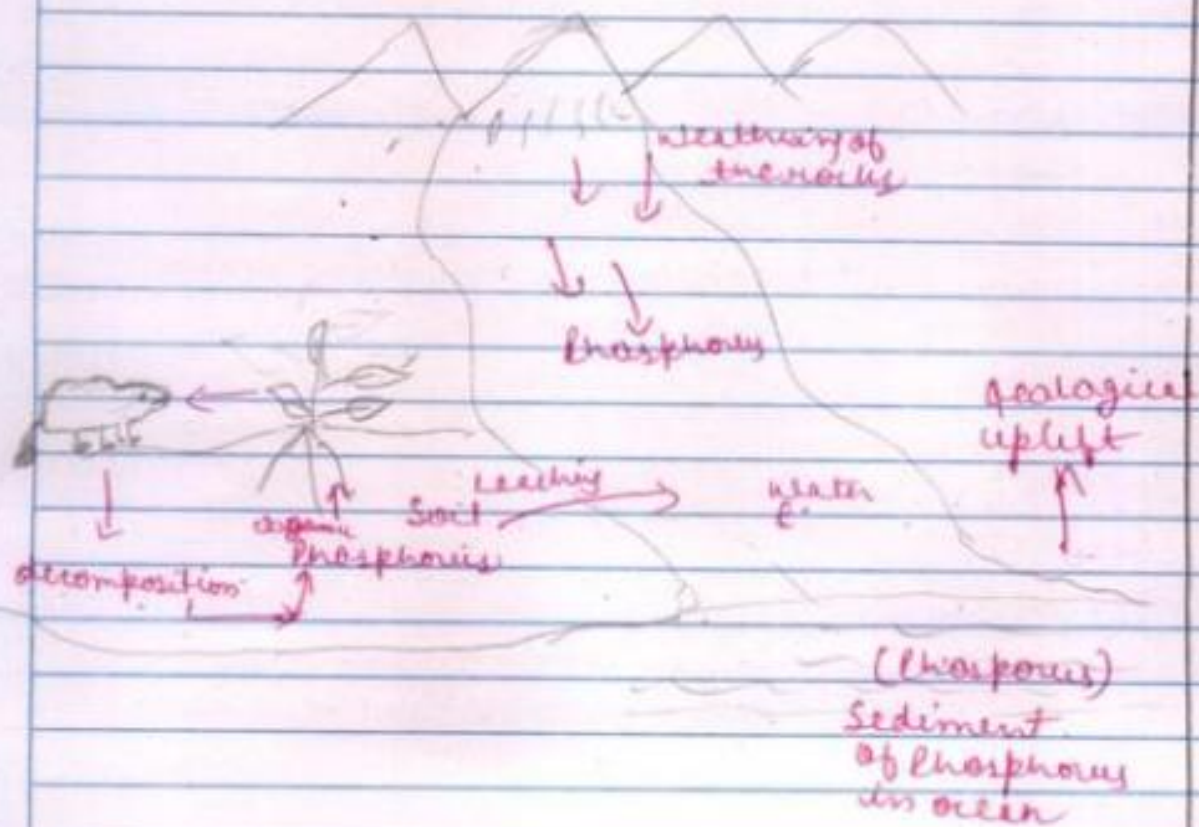


Body ^{Animal Body} Inorganic phosphorus is converted into organic phosphorus ^{plants}

Now when the animals die their phosphorus in soil which is used further taken action by decomposers and returns to the ~~ocean~~ ocean

Now phosphorus goes to the ocean/rivers by the flow of water & as from soil phosphorus is leached into ~~ocean~~ ocean

Now \rightarrow Phosphorus \rightarrow river/ocean and again by geological uplift further cycle starts this cycle continues and is time taking.





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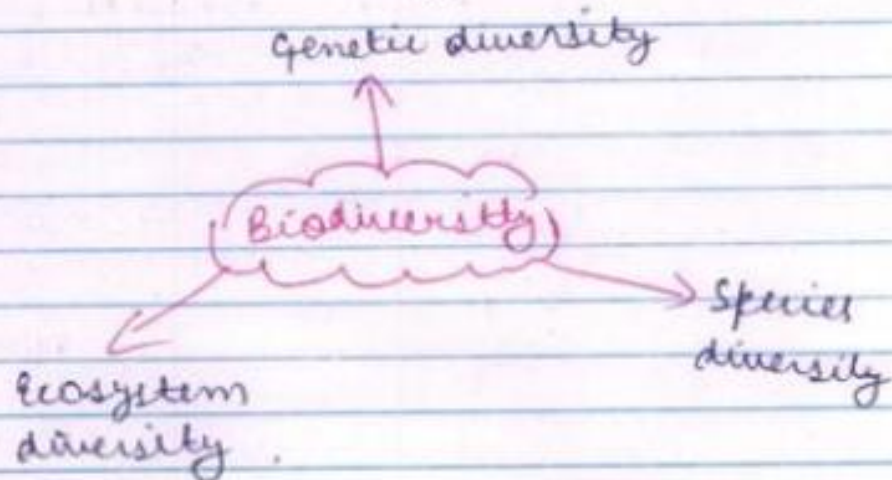
Section → C

Q8:

Biodiversity is the diversity of ~~the~~ organisms / species / ecology present in an area.

various different types of organisms present so there is more bio-diversity.

Hotspots are the ar. ✓ where max. Biodiversity. there are three types of Biodiversity.



- (i) Genetic diversity diversity
the difference in the organisms
within the sp same species.





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(2) Species diversity

The diversity in organisms with in ecosystem, as different types of species is present.


(3) Ecosystem diversity

The diversity in the different kinds of ecosystem present.

α diversity \rightarrow species richness within the same species.

β diversity \rightarrow species richness within two different kinds of species.

γ diversity \rightarrow overall species richness.

Biodiversity has  a very important role in ecosystem without biodiversity it would be difficult to even survive without any problem so here are role of biodiversity in ecosystem.

- Due to biodiversity there is less competition between species as different species have different requirements and need to due biodiversity different species can coexist.



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- Biodiversity helps in Nutrient cycling.
- Biodiversity which is important ecological functions.

due to

- Biodiversity as different kinds of plants & animals are present from which different medicines can be obtained.

- ~~eco~~ ^{ecologically} also biodiversity is very important as due to this many more byproducts are found which are economic.

- Aesthetically Aesthetically also biodiversity is very important because different plants & kinds of plants and animals are very pleasing to the eyes.

- On certain trophic levels some organisms can feed on particular organisms and if those organisms are not in that particular area the organisms those who feed on them can die. So ^{if} there is biodiversity ~~diff~~ ^{richness} will be more species richness and the animals can feed upon alternatives.



- for atmosphere also biodiversity is very important and plays very important role as different plant species produce oxygen in large quantities and also perform other ecological functions.

Hotspots → are the areas where biodiversity is maximum. The species richness is very much ~~high~~ ^{there} endemic species are found ~~there~~ there so it is very important to ~~see~~ Hotspots are very important.

there are →  Hotspots worldwide

↓
Hotspots in India

- (1) Himalayan Region
- (2) Western Ghats
- (3) Indo-Burma region
- (4) Sundaland
(Andaman & Nicobar)

Biodiversity is very beneficial yet there are many threats to the biodiversity due to which it is

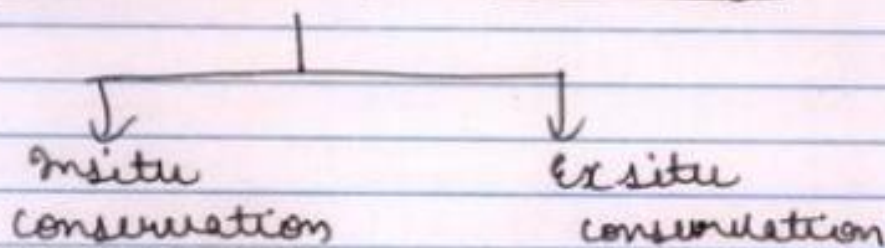


Contaminants even alter the genetic combination of the species.

- Diseases are the another reason of loss of ~~to~~ biodiversity, due to certain diseases which are obviously caused in animals due to human activities species die and there is loss of biodiversity.
- Rapid industrialisation is also the reason of loss of biodiversity.

Above we can see that most of the reasons of the biodiversity are humans and human activity so it is very important for ~~the~~ man to see it and try restoring biodiversity before it is too late.

Conservation of Biodiversity



Conservation of the species within its natural habitat

Conservation of the species outside of its natural habitat



Paper Code

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20

onsite conservation → National Parks,





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21

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22

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24

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