Shelly	Jose(7559870800)	Dwaraka AUPS	EVS STUDY NOTE	UNIT 1-4	Page:1
1)Nan   →	<b>ne of the animals (</b> Elephant,Cow, Gir	<u>EVS – UN</u> t <b>hat live in land</b> affe, Dog, Tiger	IIT-1 Field and Forest		
2)Nan →	<b>ne of the animals I</b> Fish, Octopus, Do	t <b>hat live in water</b> lphin, Shark, Whale			
3) Ani →	<b>imals that can live</b> Frog, Crab , Snake	<b>in both water and</b> , Turtle, Seal	land		
<mark> </mark> 4) Wh 	<b>at are the special</b> The boat - like sha The fins also help	<b>features of a fish</b> pe with both ends <sub>l</sub> the fish to swim in v	pointed enables the fish water.	n to move throug	h water.
5) Wh →	<b>at is called adapta</b> An organism has c adaptation.	<b>ition?</b> ertain peculiarities	that help it to live in its	dwelling place. T	This is called
6)Wha   →	<b>at plants and anim</b> Lotus , Fish , Frog,	<b>als that you can fi</b> Water lilly, Snake, A	<b>nd in a pond and a pad</b> e Algae	dy field?	
  7. Ada	aptations of water	living plants			
		<ul> <li>ans. They d</li> <li>The leaves l</li> <li>The flower</li> </ul>	lo not decay when they float on the water surfa remains erect above the	live in water ce e water level	
8. Ada	<b>aptations of a turt</b> Body is slippery Limbs(അവയവങ Webbed feet help	<b>le</b> ദൾ) help to move o to swim	on land		
9. Wh	<b>at are the special</b> Oily feathers Serrated beak webbed feet	features of Duck t	hat helps it to move in	water as well as	s on land?
10.Ad	<b>aptations of Croc</b> Shape of the body Elongated tail Legs suited to wal	<b>odile</b> k on land			
11. W	<b>hat are the adapta</b> Slimy body Legs suited to jum Webbed feet help	<b>itions of frog?</b> Ip on the land s to swim in the wa	ter		
12. W	<b>hat are the adapta</b> Elongated Leg Elongated neck Long and pointed	<b>itions of stork(</b> കെ beak	ാക്ക്)?		

\_\_\_\_\_

Shelly J	ose(7559870800)	Dwaraka AUPS	EVS STUDY NOTE	UNIT 1-4	Page:2
13.Wha	at are the benefit	s that the organ	isms get from a banvan	tree?	
13.00110		Ans.	isins gee nom a banyan		
	C	> Food			
		> Rest	_		
	E TABO		e air		
		<ul><li>For b</li></ul>	uilding nest		
14. Hov	w do Plants, anim	als and soil are i	elated?		
Ans. Pla	ants and animals h	nelp each other to	survive. Living and non-	living things depe	ends on each
other.					
15.Wha	at are biotic facto	ors?			
Ans. Liv	ving things are bio	otic factors. Exam	ple – Plants, animals etc.		
16 Wh:	at are abiotic fac	tors?			
Ans. No	on-living things are	e abiotic factors.	Example – Stone, river, so	oil etc,	
				·	
17. Ho	w do abiotic facto	ors help animals	and plants?		
	Plants and animal	nimals need air ic s cannot live with	out water		
> I	Plants cannot grov	w without sunligh	nt.		
18. Cor	nplete the table	about Biotic / Al	Diotic factors and interd	ependence	
NO				ependence	
1	Fish		<ul> <li>Live in water</li> <li>feed on small organi</li> </ul>	sms in water	
<u>ר</u>	Matas		<ul> <li>Drevides dwelling plan</li> </ul>		
2			Provides dwelling pla		
3	Banyan tree		<ul> <li>Make the soil fertile</li> <li>Helps retain water in</li> </ul>	the soil	
1	Lotus		Living in the water		
	Pock		Drovides living place	for organisms	
5	Air				
0	All		<ul> <li>Organisms need alf t</li> </ul>	o breach and live	
-	_				
7	Frog		• Lives both in water a	ind on land	

#### 9 Light • Helps the organisms to see Tortoise Digs burrows in the soil and lives there 10 ٠ 11 Soil Helps the plants to grow • Gives fruit 12 Vines • Grow towards the sunlight •

# 19.What is an ecosystem?

Ans) An ecosystem includes the mutually dependent biotic and abiotic factors of a particular place.

# 20.How beautiful is the forest! Why is it so beautiful?

Ans) So many diverse organisms like huge trees, tiny plants, animals, birds, insects and many others live in the forest. Butterflies and streams provide charm to the forest. The forest is indeed a world of wonder!

Shelly	Jose(7559870800)	Dwaraka AUPS	EVS STUDY NOTE	UNIT 1-4	Page:3
   <b>21. H</b> (  Ans)	ow is the forest us	eful to us and oth	er organisms?		
•   •   •   •	streams and rivers Forest helps to get It protects animals We get pure air fro forest is the habita	emerge from fore rain om forest at of diverse living	sts. things.		
22)Ma	<b>ike a list of ecosys</b> Hills bush sacred groves (kav Ponds	<b>stems.</b> ukal)			
23. W	<b>hat are the harmfu</b> Animals lose their Plants perish Streams dry Water scarcity occo Natural calamities	l <b>effects of demo</b> home urs occure.	lition of hills and fores	st?	

#### 24. What are the different activities of man that destroys the ecosystem?

- Deforestation
- Sand-mining
- Excessive use of pesticides
- Dumping of plastic waste in the soil and water.
- Reclamation of paddy fields

# 25)What are the effects of deforestation ?

• Deforestation will lead to the destruction of plants and animals. It reduces rainfall

# 26) What are the activities that we can do to protect our environment?

Ans)

- Growing plants
- Make a medicinal plant garden
- Make a flower garden
- Make an ecopark
- Creating environmental awareness
- Reduce the use of plastic materials
- Use paper bags and ink pens
- Making posters and leaflets
- Cleaning
- Conservation of water

### UNIT 2 - THE LEAF TOO HAS TO SAY

# Q1) Draw the picture of a plant and label its parts

Flower Seeds Seeds Construction of the set o

### Q2) Draw and explain Tap root system,give examples



The tap root system consists of the larger tap root and the smaller branches growing from it. The tap root system grows more deeply.

Hence these roots hold the plant firmly in the soil. Examples: Mango tree, Jack tree,Teak, Brinjal, Pea, Amaranthus, lady's finger

### Q3) Draw and explain Fibrous root system,give examples

Large number of roots grow from the base of the stem and they are fibre like and look similar. It is the fibrous root system. There is no main root. They do not grow deep in the soil. The roots grow far and wide in the upper soil. It is easy to uproot the plants. coconut, arecanut, bamboo, paddy,grass etc. are plants with fibrous root system

# Q4) Draw and explain Reticulate venation.

The network - like venation in leaves is called reticulate venation.

<sup>®</sup> Reticulate venation examples:Mango, coriander, rose and oak.

#### Q5) Draw and explain Parallel venation

The parallel arrangement of veins in leaves is

called parallel venation. Parallel venation examples: banana, palms, lily, grass and wheat.

#### 6) Find out the differences between reticulate venation and parallel venation

- In reticulate venation some veins originate from the central vein and run towards both parts of the leaf. But in parallel venation the veins originate from the leaf stalk and run almost parallel and reach the tip of the leaf. The veins do not touch each other in any part of the leaf.
- It is difficult to tear the leaves with reticulate venation. But leaves with parallel venation can be torn easily.
- The principal vein is absent in leaves with parallel venation. these are generally long and narrow.

#### Q7) Tabulate the root system and venation of the plants we observed

Name of the	Ro	ot System	Vena	Number of	
plant	Tap root	Fibrous root	Reticulate	Parallel	cotyledons
Coconut Tree		Х		х	1
Mango Tree	x		x		2
Arecanut Tree		Х		х	1
Jack Tree	x		x		2
Bamboo Tree		x		х	1
Teak Tree	x		x		2
Paddy		Х		х	1
Hibiscus	x		x		2



Plants having only one cotyledon are called monocotyledonous plants(monocots). The outer part of the stem of monocot plants is harder than the inner part.Examples: rice,barley,<u>wheat,palm trees</u>, <u>bamboo</u>, <u>bananas</u> and <u>ginger</u>

Shelly	Jose(7559870800)	Dwaraka AUPS	E۸	VS STUD	Y NOTE	UNIT 1-4	Page:6
Q15) \ > Q16) \	What are dicotyl Plants having tw inner part is harc What are the dif	edonous plants (dico o cotyledons are calle der. Examples:Pea,Bea ferences between Me	ots)? ed di ans, ono	? icotyledc mango. <b>cot and</b> I	onous plani Dicot .	ts(dicots).In dic	ot plants, the
	MONOCOT		DI	СОТ			
1	Single Cotyled	lon	Tw	o Cotyle	don		
2	Long Narrow L	_eaf	Вго	oad Leaf			
3	Parallel Veins		Ne	twork of	Veins		
		MONOCOT			DICOT		
     		Single Cotyledon		Two Cotyledon			
     		Long Narrow Leaf Parallel Veins		Broad Leaf Network of Veins			
     		Vascular Bundles Scattered		Vascular Bundles in a Ring			
     		Floral Parts in Multiples of 3		Floral Parts in Multiples of 4 or 5			
   		UNIT- 3 The	Roa	ad to Ind	ependenc	<u>e</u>	

# Q1) When did Gandhiji came back to India from South Afrca?

On 9<sup>th</sup> January 1915 at Apollo Banther harbour, Bombay

# Q2) What was the condition of India during British rule, when Gandhiji came back from South Africa.

The British ruled India threatening and killing the Indians. Indians were forced to obey all their rules such as Students punished for singing patriotic songs, Farmers lived in misery, Taxes increased etc.

# Q3)How did Gandhi became the leader of Indian National Congress.?

Gandhiji devised new means of protests, like Satyagraha for the fight against the British. Gandhiji's simple way of life and pleasing speech capture the minds of ordinary people. Their mass support raised him to the leadership of the Indian National Congress.

# Q4) What is called Satyagraha?

Satyagraha means holding on to truth. Never accept anything evil, oppose it. ,Do not use violence. Never give up non-violence.

# Q5) Explain about Champaran Satyagraha (The first struggle for peasants)

The peasants(farmers) of Champaran village in Bihar were in great misery. They were forced to cultivate indigo. They have to sell it at a rate fixed by British landowners. They levied excess taxes . Gandhiji led a Satyagraha struggle and set the peasants free from misery(ദുരിതം).

Shelly Jose(7559870800)	Dwaraka AUPS	EVS STUDY NOTE	UNIT 1-4	Page:7
V <b>G6)Explain about Khed</b> The Kheda Satyagraha d yields(വിളകൾ) are low.	a Satyagraha? emanded that the I	caxes imposed on peasa	nts should be redu	uced when the
<b>Q7) Explain about Ahn</b> Ahmedabad textile mill	nedabad textile mi strike was for raisin	<b>ll strike?</b> g wages.		
Q8) complete the table	about Struggles a	<u>ind their special featur</u>	es	
Agitation		Peculiarities		
Champaran Strike		Miseries of Farm Introduces Satya Farmers problem	ers agraha n reduced	
Kheda Strike		To reduce the ne strike led by Gan	ewly added tax Idhiii	

	It was successful
Ahmedabad strike	To increase wages strike led by Gandhiji It was successful

#### Q9) Prepare note on Jallianwallabagh incident

The place known as Jallianwallabagh in Punjab. A big open ground surrounded by huge buildings, with only one entrance. A meeting was going on there to protest against the injustice of the British. Suddenly British army started firing. The shocked and horrified people ran all around for life. Hundreds of people lost their lives. This incident, that shocked the Indian mind, took place on 13 April, 1919.

#### Q10) Explain about Non-cooperation Movement

It was decided not to cooperate with the British Government at any level. The demands of the Non-Icooperation Movement are Promote Khadi, Boycott foreign clothes, Promote Hindi, Stop using alcohol.

### Q11) Prepare note on the importance of the Salt Satyagraha (Dandi March)

It was Gandhiji who introduced salt as a tool for agitation. Salt is made by evaporating sea water. The British rulers imposed heavy taxes on salt. If anyone made salt without paying tax, it would be a Ipunishable offence. Gandhiji and his followers marched from Sabarmati Ashram for 388 Kilometres and reached the Dandi beach. There he broke the salt law. On March 12, 1930.

### Q12) Explain about "Kerala and the Salt Satyagraha"

By singing Patriotic songs Satyagrahis violated the law on salt tax at Payyanur sea shore in Kannur. K. Kelappan led this protest in Kerala. Later he came to be known as 'Kerala Gandhi'.

### Q13) Write the names of Freedom fighters of Kerala

K.Kelappan, T.K. Madhavan, Mohammed Abdu Rahman , K. P. Kesava Menon, A. K. Gopalan, Akkamma Cherian, Kutty Malu Amma etc., were the main leaders who led the freedom struggle in Kerala

#### Q14) Identify the protests in Kerala related to the freedom struggle.

Malabar rebellion, Revolts organized by pazhassiraja, Guruvayur Sathyagraha, Vaikom Satyagraha.

### Q15) Prepare note on 'Quit India' Movement?

Jawaharlal Nehru presented the Quit India Resolution at the Congress session held in Bombay. 'Do or Die', the exhortation of Gandhiji was taken up by the masses. Everyone, including students, joined the struggle. We observe August 9 as 'Quit India Day'.

Shelly Jose(7559870800)	Dwaraka AUPS	EVS STUDY NOTE	UNIT 1-4	Page:8

#### Q16) What is the importance of October 2<sup>nd</sup>?

The United Nations has declared October 2 nd , the day of Gandhiji's birth, as World Non violence Day. This is the world's recognition of Mahatma Gandhi's message of 'ahimsa'.

### Q17) Name some of the leaders who fought bravely for freedom?

Jawaharlal Nehru, Bhagat Singh, Sardar Vallabhbhai Patel, Sarojini Naidu, Balagangadhar Tilak, IKhan Abdul Gaffar Khan, Subhash Chandra Bose, Gopalakrishna Gokhale, Dr.S Rajendra Prasad, Maulana Abul Kalam Azad

### Q18) When did India became independent?

It was the result of the sacrifice and struggles of several such brave patriots that India became independent on 15 August 1947.

### Q19) Who is known as 'Kerala Gandhi'?

K. Kelappan

# Q20) When do we celebrate Quit India Day?

August 9

# **Q21) What was the exhortation of Gandhiji in the 'Quit India' Movement?**

### UNIT- 4 Wonder World of Birds

#### Q1) What are the common characteristics of birds?

They have feathers in their body, They lay eggs, They have wings and tail, They have two limbs, still many of them fly. It is easy to identify many birds from their sounds. They search for food, They feed the young ones, They make nests, Normally, they wake up either before or just after sunrise. They return to their nests in the evening. They can perch on the branches of trees and sleep.

### Q2) Mention the names of the birds seen in your locality

Parrot, Mynah, Woodpecker, Kingfisher, Sparrow, Crane, Humming bird, Kite, Pigeon.

### Q3) Where do birds build nests?

On the holes of tree trunks, In between the branches of trees, Between the leaves of sugar- cane and coconut trees, Among bamboo thickets, In burrows Among the crevices of rocks, Pits made on ground, On floating twigs Among the litter lying on the floor.

### Q4) Why do birds make nests?

<u>Birds build nests in order to lay eggs, to rear the chicks and for protecting themselves.</u> Though birds Ibuild nests, they do not live in them for a long time.

### Q5)Do all birds make nests? If not, where do they lay eggs?

The cuckoo/koel is a bird which does not build nests on its own,They lay eggs in the nests abandoned by other birds and they do not rear their chicks too. There are also a few birds which do not make their own nests.

### Q6) What are migratory birds?

<u>Some birds come from far off places in certain seasons. They are known as migratory birds.</u> They are visitors who come from far off places. But they return before the monsoon in our country. They move from one place to another for food , reproduction and to overcome bad weather

# Q7)What are the physical features which enable the birds to move and to catch prey? (How do shape, size, legs, wings etc., help birds to fly?)

The water-wading birds have long legs and beaks eg: Crane. Birds that can take the nectar from the Iflowers have long and curved beaks eg: Humming bird. There are birds that have curved and sharp beaks to help them eat fruits while perching on the branches of trees. eg: Parrot. Birds that fly very high in the air have longer wings and sharp vision, eg: Vulture.

# Q8)What are the peculiarities of the eagle? How do these peculiarities enable the eagle to catch prey?

Keen eye sight, Curved and sharp beak, Strong sharp and pointed claws, Can fly downwards and upwards. It can quickly fly down to the ground . It can snatch away the chicks with its long and curved claws and can fly high up in the air and it has sharp vision. It catch its prey with long beaks land fly away quite easily. It can see the objects that are far away as it has sharp vision. It possesses a strong body. Kites can be seen in almost all over in Kerala. It can fly high in the sky. While flying it can glide in the wind without moving its wings.

### Q9)How beaks and legs help birds in gathering food?

The webbed feet of Duck help them swim in water. The curved beaks of vulture and kite help them to catch the prey and fly away quickly .The flat beaks of ducks have sieves on both the margins. While it catches prey from water, some water enters the beak. This can be sent out through the sieve-like part. vulture and kite have strong feet, long and curved claws that allow them to fly away holding the prey to far off places. The long limbs of the Crane help it to step into the water and catch its prey by using its long beak.

# Q10)The beauty and the sounds made by the birds make our environment more attractive and beautiful. What are the other uses of birds?

Owls and kites eat rats that are harmful to us. Thus they prevent their multiplication. <u>The dispersal</u> of seeds is made possible by certain birds that eat the fruits of trees and plants. Pests are being eaten away on a large scale by these birds and thus they prevent their multiplication. <u>Birds like</u> <u>crows and hens act like scavengers</u>, they help us by keeping our surroundings clean. <u>Many birds and</u> <u>their eggs are used as food by us</u>. We also rear birds in order to enhance aesthetic beauty.

# Q11) Birds are one among the factors that protect our environment. But their population is getting decreased alarmingly. What could be the reasons for it?

Increased use of pesticides ,Hunting and Poaching, Being used as food ,Pollution, Deforestation, Forest fire, Climate change

# Q12) It is our duty to protect birds. How can we do that?

We should stop hunting the birds for fun. We should control pollution. We should stop deforestation. We should cultivate an attitude in ourselves that even the birds have the right to live in this earth just as we do. Remember, it is our own necessity to protect the birds. We should provide an atmosphere where birds can live without fear.

# Q13) Prepare A bird-watcher's note

(Model- Parrot) It has blue colour above its tail. It has yellow colour at the base of the tail. The upper part of the beak has red colour, and the lower part has black colour. The length from the head to its tail is about 40 centimetres. We can see them in the countryside, they flock together and live as communities. Cereals, fruits and seeds are their food. They lay eggs in the nests abandoned by other birds, or on crevices of rocks, or on the holes of the walls. Eggs are white in colour. These pretty parrots have beautiful sounds too.

# Q14) Why do we rear birds in our homes?

For fancy, For eggs, As an occupation For entertainment, For fertilizer, For flesh, To feed them with the remains of food.

Shelly .	Jose(7559870800)	Dwaraka AUPS	EVS STUDY NOTE	UNIT 1-4	Page:10
   <b>Q15) E</b>  ( <u>1) Ost</u>	Birds that are unat crich (2) Emu (3) Kiv	ole to fly are vi etc.			
   <b>Q16)  </b>   <u>Sparro</u>   <u>not to</u>	<b>bird-watcher's not</b> w is a bird that is n be seen in our area	<b>:e -Sparrow</b> ormally seen in url as. It is a bird that c	oan areas right from o an form intimate rela	<u>lden days, But now</u> tionship with huma	<u>/ these birds are</u> an beings. <u>It is a</u>
l <u>having</u> interfe	the length of about erences are the read	<u>ut 16 cms . lts food</u> sons for their decr	<u>consists of cereals</u> . E eases in number.	nvironment polluti	ion and human     
Q17) F   <u>Emu, K</u>     <b>Q18) C</b>	Gightless birds Giwi, Ostrich, Pengu Complete the table	<u>iin</u>			
NO	BIRDS	BOD	Y FEATURES	ADAPTA	TIONS
			aal	I lala a ba sa bab ayu	
	Curlew	Long curvea	Jeak	organisms that his and sand	en small de in the mud
2	Humming bird	Long curved	ved tube like beak	Helps to catch eve organisms that hid and sand Helps to sip honey long flowers , Hel in a place	en small de in the mud y even from ps fly in the air
2	Curlew Humming bird Wild duck	Long curved Long and cur Boat shaped wings	ved tube like beak body, Long and flat	Helps to catch eve organisms that hid and sand Helps to sip honey long flowers , Hel in a place Helps to fly fast, W fly high	en small de in the mud y even from ps fly in the air Wings help to
1 2 3 4	Curlew Humming bird Wild duck Painted stork	Long curved Long and cur Boat shaped wings Long beak	ved tube like beak body, Long and flat	Helps to catch eve organisms that hid and sand Helps to sip honey long flowers , Hel in a place Helps to fly fast, V fly high Helps to catch fish the water	en small de in the mud y even from ps fly in the air Wings help to n even under
1 2 3 4 5	Curlew Humming bird Wild duck Painted stork Bronze Winged Jacana	Long curved Long and cur Boat shaped wings Long beak Long toes	ved tube like beak body, Long and flat	Helps to catch eve organisms that hid and sand Helps to sip honey long flowers , Hel in a place Helps to fly fast, W fly high Helps to catch fish the water Helps to walk, on leaves	en small de in the mud y even from ps fly in the air Wings help to n even under the lotus

### Q19) Identify and state the importance of birds.

\*Birds help in the dispersal of seeds. \*Birds help plants to grow in different places. \*Birds help to maintain plant diversity.

Q20) How will it affect the nature if the number of birds decrease and their extinction ? There will be an increase in the number of rats and insects .This will result in the destruction of cultivation. Forest , sacred grooves etc will lose their natural beauty. There will be an extinction of plants in which seeds are dispersed by birds. Destruction of biodiversity.

Q21) Where can we see angadikuruvi? What may the reason for their decrease in number ? Non-availability of tiny insects as food due to the loss of vegetation around our modern buildings. The excessive use of mosquito repellents indoors and insecticides outdoors. Our concrete architectures with no nesting sites for sparrows Air-conditioning which leaves no entry or exit Ipoints for feeding sparrow nestlings. Increasing noise from auto mobiles and their gaseous pollutants. The recent increase in electromagnetic radiations from cell phone towers . Explosive use of diverse wireless devices indoors.