Assignment No. 1 Chapter –1 Nutrition in Plants

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I.	нлп	ın	the	h	lanks	

II.

4	
Ι.	Green plants are in nature.
2	are the tiny pores present on leaf surface to breathe in air.
	gives a leaf the ability to convert solar energy into food.
4.	Plants manufacture food in the form of
5.	is a parasitic plant.
6.	Green plants are called because they make their own food.
7.	Human beings are
8.	Presence of starch is tested with the help of
N	ame the following:-
1.	A parasitic plant with long, yellow and slender stem.
2.	The pores in leaves through which exchange of gases takes place
3.	The gas released during photosynthesis
4.	The process of taking food and its utilization by the body.

5. An organism which cannot make its own food and depends on other for its food.

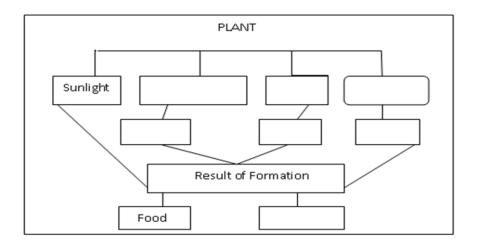
IIII. Match the following:-

Column A	Column B
1. Fungi	(a) Leaf
2. Amarbel	(b) Heterotrophs
3. Pitcher Plant	(c) Parasite
4. Animal	(d) Saprophyte
5. Plant's food factory	(e) Insects

IV. State whether true or false

- 1. All plants are autotrophs
- 2. Animals are heterotrophs.
- 3. Insectivorous plants are also autotrophs.
- 4. The product of photosynthesis is carbohydrates.
- 5. Food is synthesized in chlorophyll pigment.

V. Complete the following web chart



VI.	Multiple Choice Questions:-
1.	Stomata is surrounded by:
	(a) Guard cells (b) Chlorophyll (c) Carbohydrates (d) None of them
2.	Which of the following is a parasitic plant?
	(a) Cuscuta (b) Algae (c) Pitcher plant (d) Lichen
3.	Which of the following requires nitrogen for its synthesis?
	(a) Carbohydrates (b) Proteins (c) Fats (d) Vitamin
4.	Which of the following does not help in providing nitrogen to the soil?
	(a) Peas (b) Gram (c) Beans (d) wheat
5.	Living organisms are made up of tiny units called
	(a) Nucleus (b) Cell (d) Cytoplasm (d) Cell membrane
6.	Slimy green patches are formed in ponds by-
0.	(a) Algae (b) Bacteria (c) Lichens (d) none of these
7.	Which of the following statements is false?
7 •	(a) Green plants are autotrophs (b) Non -Green plants and animals are heterotrophs
	(c) Photosynthesis takes place mostly in green leaves which contains green pigment, Chlorophyll
	(d) Photosynthesis does not take place in deep red, violet or brown leaves.
8.	Which of the following parts of a desert plant perform the function of photosynthesis?
0.	
0	
9.	The green coloured pigment in the leaves is-
10	(a) Chlorophyll (b) Anthocyanin (c) Protoplast (d) Chloroplast
10.	Which of the following is not true about saprophytic plants?
	(a) These plants are green in colour. (b) These plants are commonly seen during and after rain.
	(c) Yeast shows saprophytic mode of nutrition.
	(d) These plants secrete digestive juices on the dead and decaying matter
11.	Saprophytic mode of nutrition is found in
	(a)Lichen (b) bladder wort (c) mushroom (d) cuscuta
12.	Two different organisms living together and both benefit each other are known as:-
	(a) Saprophytic (b) Symbiotic (c) Parasitic (d) Heterotrophs
13.	Pitcher Plant is green in colour but it eats insects to complete the requirement of-
	(a)Water (b) Carbon dioxide (c)Nitrogen (d)Oxygen
14.	Which of the following is the function of stomata?
	(a) Carbon dioxide enters the leaf through stomata
	(b) Nitrogen discharges into the atmosphere from the leaf through stomata
	(c) Food material synthesized in the leaf is discharged into the atmosphere from the leaf through
	stomata.
	(d) Oxygen enters the leaf through stomata.
15.	Identify 'X' in the following reaction:
	CO_2 + Water $\frac{\text{Sunlight}}{\text{Chlorophyll}}$ x + Oxygen
	(a) Vitamin (b)Protein (c)Carbohydrate (d)Minerals
16.	Which of the following raw material is not necessary for photosynthesis?
	(a) H_2O (b) Sunlight (c) Nitrogen (d) none of these
17.	Which of the following is not insectivorous
	(a) Bladderwort (b) Pitcher Plant (c) Lichens (d) Sundew
18.	Photosynthesis is a
	(a) Natural process (b) Chemical process (c) Natural Chemical Process (d) Physical process

19.	Which of the following season provides	s ideal co	onditions for fungi	to grow	?			
	(a)Cold weather (b) Rainy season	(c) H	Hot and humid weath	ner (d)	Both (b) and (c)			
20.	Which of the following is correct?							
	(a)Fungi like yeast and mushroom are use		•	ease in p	lants.			
21	(c) Some fungi are also used in medicine	, ,	ll the above.					
21.	Autotrophs have a green coloured pigr (a) Leucoplast (b) Chloro		(c) Basophil		(d) Haemoglobin			
22.	Raw material for photosynthesis	pilyii	(e) Busopiiii		(d) Haemogroom			
	(a) Carbon Dioxide (b) Chloro	phyll	(c) Sunlight	(d)	All of them			
23.	An example of an autotrophic plant is							
	(a) Mushroom (b) Mould		(c) Dodder	(d)	Neem			
24.	An example of a saprophyte plant is		() 3.	(1)	A.H C			
25	(a) Dodder (b) Cuscuta		(c) Mushroom	(d)	All of them			
25.	Of the following identify the carnivoro (a) Pitcher Plant (b) Venus		(c) None of them	(d)	Both of them			
VII.	Very Short Question:-	iiy uup	(e) Trone of them	(u)	Dom or them			
	1. Define nutrition.							
	2. Where are the food factories of plants							
	3. How do fungi germinate and grow?							
	4. How water and minerals absorbed by t	he roots	reach the leaves?					
	5. Some plants have deep red, violet or b	rown leav	ves still these leaves	carry ou	at photosynthesis. How?			
6. What are insectivorous plants? Give examples.								
	7. Is it possible that insectivorous plants	do not ge	t all required nutrier	nts from	the soil in which they grow?			
VIII.	Short Answer Question:-							
	1. What are stomata? Draw its diagram.							
	2. Write harmful and useful effects of Fu	ngi.						
	3. Define symbiotic relationship with example.							
	4. How nutrients are replenished in the soil?							
	5. What are algae? Why they are green in colour?							
	6. Define autotrophs and heterotrophs.							
	7. If the pitcher plant is green and carries	out phot	osynthesis then why	does it	feed on insects?			
IX	Long Answer Question: -							
	1. How do pitcher plants eat insects? Ex	plain witl	h diagram.					
	2. How do plants obtain the raw material	s from th	e surroundings?					
	3. Define cell. Draw and explain general	structure	of cell.					

Assignment No. 2 Chapter-5 Acid, Base and Salts

I	Fill in the blank	XS							
	1. The bases turn	1	litmus to						
	2. The indicator	2. The indicator that gives green colour with a base is							
	3. An effective a	3. An effective antacid contains							
	4. A solution wh solution.	4. A solution which does not change the colour of an indicator is called							
		etween an acid	and a base to form a salt and water is ca	lled reaction.					
		6 are used to test acidic and basic nature of solution.7. When acid and base react are formed.							
			reddish – brown in basic medium.						
			in						
	_		alled						
II	State true or fal								
	 An acidic solu Aluminum Hy Battery acid is Antacids are a Sulphuric acid 	tion gives gree droxide is an a dilute sulphur cidic substance l is present in s	ic acid. es tomach						
	o. If the son is to	o acidic, quick	lime is added to it.						
III	Write one word	for the follow	ing						
		1. Acids obtained from minerals.							
		2. The bases which dissolve in water							
			g						
		4. A substance that changes in colour when added to an acid or base							
	5. A natural indicator which is pink in neutral solution and changes to green in basic solution.								
			Print in meaning services and enamedes so B						
IV	Match the follow Column A 1. Hydrochloric 2. Ascorbic acid 3. Sulphuric acid 4. Lactic acid 5. Acetic acid	Acid	Column B (a) in Storage Batteries (b) Found in Yoghurt (c) in making Vinegar (d) as bathroom acid (e) Vitamin C						
▼ 7	N/L-1421 - <i>C</i> 1	·ioo ()							
V	Multiple Cho	_							
1	(a) Acidic	Solutions which do not change the colour of litmus are							
	(a) ACIUIC	(U) Dasic	(c) recutat	(u) Dom a and C					
2	When an acid a	nd a base reac	et with each other the reaction mixture	becomes					
	(a) Hot	(b) Cold	(c) Acidic	(d) Basic					

3	Acid present in the	e sting of an ant is						
	(a) Acetic acid	_	(c) Lactic acid	(d) Ascorbic acid				
4	The acid present is	n our stomach which help	s in digestion of food	l is				
	(a) Sulphuric acid			acid (d) Phosphoric acid				
5	Acids turn methyl	orange solution						
	(a) Blue	(b) Pink	(c) Red	(d) Colourless				
6		is known as ascorbic acid	which is present in	citrus fruits.				
	(a)Vitamin D	(b) Vitamin C	(c) Vitamin B	(d) Vitamin K				
7	A base which disso	olves in water is called						
	(a) Soluble Base	(b) Alkali	(c) Acid	(d) Oxide				
8	Acids reacts with	metals to liberate	gas					
	(a) Oxygen	(b) Carbon- Dioxide	(c) Hydrogen	(d) Nitrogen				
9	China rose indicat	tor turns acidic solution to	And the	basic solution to				
	(a) Dark pink, blue	(b) Red, Yellow	(c) Dark Pink, Gree	en (d) Red, green				
10	Natural indicator	litmus is extracted from						
	(a) Lichen	(b) Earthworm	(c) Ants	(d) Algae				
11	The industrial was	The industrial waste is in nature						
	(a) Acidic	(b) Basic	(c) Neutral	(d) Both a & c				
12	Atul was given a c	olourless solution in a test	tube. He put a drop	of this solution on blue litmus				
		d blue in colour. The colou	ırless solution is:					
	(a)Acidic in nature	(b) Basic in nature	(c)Neutral in nature	e (d) both (b) and (c)				
13	China rose indicat	or when added to sodium	hydroxide solution	turns				
	(a) Magenta	(b) Colourless	(c) Green	(d) Pink				
14	China rose indicat	or is prepared from						
	(a) Leaves of the flo	ower (b)Stem of flower	(c) Petals of flower	(d) Sepals of flower				
15	The word acids me	eans.						
	(a) Bitter	(b) Sour	(c) Sweet	(d) All of the above				
16	Acid rain is cause	d due to						
	(a) CO_2 , O_2 , SO_2	$((b) CO_2, NO_2, H_2$	$(c) SO_2, N_2, O_2$	(d) CO_2 , SO_2 , NO_2				
17.	Milk of magnesia	used to treat acidity in sto	mach, contains this	base.				
	(a) Magnesium hyd	lroxide.	(b) Ammonium hyd	lroxide				
	(c) Sodium hydroxi	de	(d) Copper hydroxi	de				
18.	The substances us	ed to test the acidity and b	pasicity of substance	s are called –				
	(a) Indicators	(b) Testers	(c) Analyzers	(d) All of them				

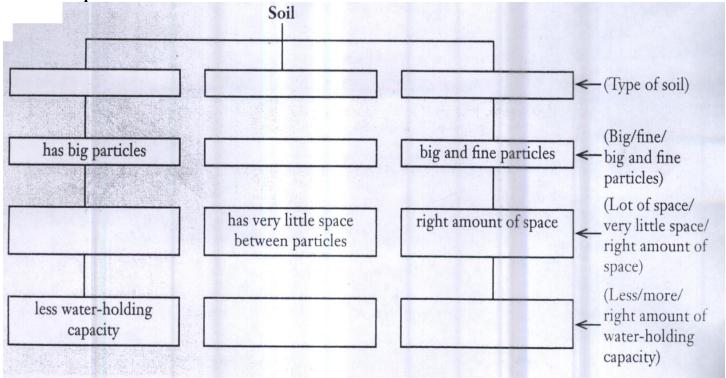
19.	The acid used for preserving food articles is – (a) Acetic Acid (b) Tartaric Acid (c) Sulphuric Acid (d) Nitric Acid						
20.	Which of the following is a strong base? (a) Ammonium hydroxide (NH ₄ OH) (b) Sodium hydroxide (NaOH) (c) Water (H ₂ O) (d) Sulphuric Acid (H ₂ SO ₄)	* * *					
21.	When a drop of phenolphthalein is introduced in lime water, the solution turns – (a) Blue (b) Red (c) Milky (d) Pink						
22.	Acids are in taste while bases are in taste. (a) Sweet, salty (b) Sweet, sour (c) Sour, salty (d) Sour, bitter						
VI	Very Short Answer Questions						
	1. What is milk of magnesia.						
	2. Define Base. Give examples						
	3. Define acids. Give examples.						
	4. How can you test the presence of an acid and base in a solution?						
	5. Define dilution.						
	6. Name two plants from which indicators can be prepared.						
	7. Give chemical composition of						
	(a) milk of magnesia (b) calamine solution						
VII	Short Answer Questions						
	1. Define indicators. Give examples.						
	2. Write important properties of acids.						
	3. Write important properties of bases.						
	4. What is acid rain? What causes acid rain and how it is harmful?						
	5. Name the acid present in following						
	(a) Vinegar (b) Ant's sting (c) Citrus fruits (d) Curd						
	(e) Spinach (f) Amla (g) Tamarind, Unripe Mnagoes						
	6. Name the base present in following						
	(a) Lime water (b) Window cleaner (c) Soap (d) Milk of Magnesia						

Assignment No.3 Chapter – 9 Soil

		C	mapter = 9 Son				
I.	Fill in the blank						
		f formation of soil is call					
		and help in we					
		n layers seen in a soil pro		,	and		
		sent in horizon					
		soil has the h					
		of trees on large scale is		•			
		te of water is high in					
	8. The layers of	soil are called					
	9. The removal of	of the topsoil by strong w	ind or by flowing wat	ter is called			
	10. The dark col	our of the top soil is due	to the presence of				
II	True or False-						
	1. Sub-soil is als	o called C-Horizon.					
	2. Sandy soil reta	ains more water than oth	er types of soil.				
	3. Based on part	icle size, clay has the sm	allest particles.				
	-	s the right water - holding	-				
	•	n is the layer of soil which	• • •				
		•					
	· ·	of trees on large scale is					
	7. Soil also conta	ains some insects and mi	cro-organisms.				
	8. Soil erosion is	s the removal of top soil	by wind or flowing wa	ater.			
	9. The percolation	on of water through soil	is the same as absorpt	ion of water by the	soil.		
	10. Humus is im	portant because it makes	the soil fertile.				
		1					
III.	Multiple Choice	e Questions-					
1.	The darkest lay	_					
_,	(a) Top soil		(c) C-horizon	(d) sub-soil			
2.		llowing can hold maxin					
_,	(a) Gravel	(b) Sand	(c) Clay	(d) Silt			
3.	` '	rocks occurs due to	(*)	(4) 23-1			
	0	(b) flowing water	(c) Heating & coo	oling of rocks	(d) all of these		
4.	• •	following humus is pro	` '	•	(0) 11-11-11-11		
	(a) A-horizon	(b) B-horizon	(c) C-horizon	(d) Bed-rock			
5.	` '	llowing contains the sm	` '	, ,			
•	(a) Silt	(b) Clay	(c) Sand		equal sized particles.		
6.	` '	l which is soft, porous &	` '		equal sizea particles.		
0.	(a) Top soil	(b) Sub-soil	(c) C-horizon	(d) bed-rock			
7.	<u> </u>	l from which plants get	` '	` '			
, •	(a) top soil	(b) sub soil	(c) C-horizon	(d) bed-rock			
8.	Soil profile cons	` '	(c) C nonzon	(d) bed lock			
0.	(a) Two layers	(b) three layers	(c) Four layers (c	d) five layers			
9.	` '	ollowing is best suited for	· · · · · · · · · · · · · · · · · · ·	a) live layers			
7.	(a) Sandy Soil	C	(c) Loamy soil	(d) all of these			
10.	•	rock particles and	•	(d) all of these	,		
10.	(a) Humus	(b) Clay	(c) Minerals	(d) Water			
11	` '	• •	` '	` '			
11.		er day air above the soi e of soil reflects the sunli			s mirror lika		
	•	s coming out of the soil	_	` '	(b) air becomes mirror like(d)All the above.		
12.		akes the soil fertile for a		(u)An the abov			
14,				(d) Sand			
	(a) Water	(b) clay	(c) Humus	(d) Sand			

plants is:- (a) soil	(b) Coal	(c) Oil	(d) water		
• •	land surface by water, ice	` '	` /		
(a) Weather	•		(d) Evaporation		
• •	can be prevented by -	i (c) Elosion	(d) Evaporation		
	more trees (b) Cutting do	wn trees (c) Defor	restation (d) None of these		
	il is heavy as it hold wate		restation (d) None of these		
(a) Loamy	(b) Clay	(c) Sandy	(d) Silt		
•	ich occurs as deposits in	` '	(d) Siit		
(a) Loamy	(b) Sandy) Clay		
• •	in clay and organic mat	` /	•		
(a) Pulses	(b) Paddy	(c) Cotton	(d) Wheat		
` '	a soil sample in boiling tu	` '			
			il particles start vaporizing.		
	apours condense on the coo				
` ′		1.1	by the action of wind, water and		
climate is ca		and will of Totals is	y the uction of white, water und		
(a) Weather		(c) Filtration	(d) Evaporation		
. ,	• • •	* *	sts of rotting dead matter called		
(a) clay	(b) Humus	(c) Sand	(d) Gravel		
	` /	` '	eetles and roots of small plants		
found in		,	•		
(a) B-horizo	n (b) Topsoil	(c) Bedrock	(d) C-horizon		
. ,	of plants and an animal i	* *	` '		
(a) Humus	(b) silt	(c) clay	(d) none of these		
Unit of rate	of percolation of water in	soil is:-	` '		
(a) (ml/sec)	(b) (ml/min)	(c) (g/min)	(d) (g/sec)		
A vertical se	ection through different la	ayers of soil is called:	_		
(a) Soil Prof	le (b) Horizons	(c) Bed rock	(d) Soil layers.		
Lentils and	other pulses grow well in	soils, which	drain water easily.		
(a) Loamy	(b) Clayey	(c) Sandy	(d) None of the above		
Soil sample	takes 15 minutes to perco	olate 300ml of water.	Its rate of percolation will be		
(a) 10ml/mi	n (b) 15ml/min	(c) 25ml/min	(d) 20ml/min		
A bedrock i	s present below				
(a) A-horizo		(c) c-horizon	(d) none of these		
Match the f	ollowing:				
Column A		Column B			
1. Mixture o	f rock particles & humus	(a) Bed-Rock			
2. Soil		(b) Silt			
3. Hard Layer of soil		(c) Soil			
4. Deposit in		(d) Natural resou	rces		
5. Gram	11101	` '			
		(e) Loamy Soil	C '1		
6. Cotton		(f) Clayey & Loa			
7. Lentil			ch in organic matter		
8. Paddy		(h) Sandy-Loam			

V Complete the web chart.



VI Very Short Answers

- 1. Give reason why during a hot summer day the air above land seems to shimmer.
- 2. Name some important climatic factors which affect the soil profile.
- 3. What factors determine the various types of vegetation and crop that might grow in any region?
- 4. What kind of soil would be the most suitable for planting rice? (Soil with higher or lower rate of percolation)

VII. Short Answer Question:-

- 1. Why there is a ban on polythene bags and plastics?
- 2. Define weathering, humus and soil.
- 3. How soil can be classified? Explain.
- 4. Which type of soil would be best for making pots, toys and statues? Why?
- 5. What is the composition of loamy soil?
- 6. Which is the best top soil for growing plants and why?
- 7. What is meant by soil erosion? What are the causes of soil erosion?
- 8. Why there is a difference in the percolation of water in kutcha floor and pucca floor?
- 9. Why is the horse dung mixed in soil while preparing matkas & surahis?

VIII Long Answer Ouestion

- 1. Define soil profile. Explain different layers of soil with labelled diagram.
- 2. Which type of soil is suitable for growing-
 - (i) Cereals (ii) Paddy (iii) Lentil
 - (iii) Lentils and other pulses
- (iv) Cotton & why?
- 3. What is the difference between the rate of percolation and the amount of water retained?
- 4. What is meant by soil moisture? Show by an activity that moisture is present in the soil.
- 5. How can we calculate percentage of water absorbed by soil?

Assignment No.4 Chapter – 3 Fibre to Fabric

	and can cause infection in sheep after shearing.			
The	of the sheep along with its thin layer of skin removed from it			
body. This pr	rocess is called			
The rearing o	f silkworms for obtaining silk is called			
	silk is the main variety of silk produced in India.			
Write True o	or False			
The silkworm	n is a caterpillar.			
Wool traps m	ore air in it as compared to cotton.			
During scouri	ing, the sheared hair are washed with soap solution.			
Natural fleece	e of sheep and goats is only black.			
The thread o	btained in the reeling process is called cotton.			
Write one we	ord for the following:-			
Rearing of sil	k moth			
The process by which curly wool fibres are straightened.				
The sticky flu	aid which on exposure to air forms a thread of silk			
The outer cov	vering which the silkworm covers itself and has the silk fibre.			
The process of	of taking out silk thread from the cocoon.			
Match the fo	llowing:-			
1. Wool	a) Antiseptic			
	ng b) Cocoon			
3. Fibroin				
4. Scouri				
	rry leaves e) Washing			
Multiple Cho	oice Questions:-			
_	e of a silkworm is			
(a) eggs, larva	a, pupa, adult (b) eggs, pupa, larva, adult			
(c) eggs. larva	a, adult, pupa (d) larva, adult, egg, pupa			

2.	Which of these is not an animal fibre?					
	(a) Angora	(b) Wool	(c) Silk	(d) Jute		
3.	The practice of rearing silkworms for silk is called					
	(a) pisciculture	(b) agriculture	(c) sericulture	(d) apiculture		
4.	Sorter's disease is a fatal					
	(a) blood disease	(b) skin disease	(c) heart disease	(d) lung disease		
5.	Silkworms breed well in or during					

(b) summer

F. Complete the following Table.

(a) winter

Step	Procedure
1. Shearing	
2.	The sheared skin with thick coat of hair is then washed thoroughly in tanks to remove grease, dirt and dust.
3.	The dyed fibres are passed through metal teeth to straighten them.
4. Spinning	
4. Spinning	

(c) rains

(d) spring

G. Answer the following:-

- 1. Give two examples of animal fibres.
- 2. Define shearing. How is shearing done?
- 3. What is sericulture?
- 4. What is a cocoon?
- 5. Name five animals from which wool is obtained.
- 6. What are occupational hazards? Give example also.
- 7. Draw and describe the life cycle of a silk moth.
- 8. Explain the steps involved in the processing of fibres into wool.