

# JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet - 2020 Grade - 07 | Science

ne/I	ndex No :		செல்வி.கை.கீதா B.Sc, NDT(Science)						
		Answer the all questions							
		Unit 1 - Plant Diversity							
1. Give 4 non flowering plants.									
Give the main function of following plant parts									
	Roots								
3.	Give the type of roots w	hich gives additional support fo	r the plants						
4.	What is the function of r	oot nodules of Leguminasea p	lant?						
5	Fill in the blanks								
٥.		·	T						
	Plant	Function of special root	Type of root						
	Banyan tree	Give additional support to							
		stem							
	Betel								
	Avicenia								
		Foot storage							
6.	How does Orchid plant	get the water?							
<ul><li>7. Give 2 plants which have photosynthetic stem</li><li>8. Give 2 plants which have underground stem</li></ul>									
						9.	What are the benefits of	f underground stem with the f	unction of food storage?
10		o parallal vanation in leaves							
ΤÜ	. Give 2 plants which hav	e parallel venation in leaves							

12. Name 2 plants which are reproduced by leaves  13. Following diagram shows the longitudinal section of a flower  1. Identify the parts A- F  A- B- C- D- E- F-  1. Identify the letters which denote the androecium part  2. Identify the letters which denote gynoecium part  3. What is the function of part C?  4. What is the function of part C in flower that blooms at night.  6. Which part of flower is produce pollen grain?  7. What is the difference between stilt root and prop root?  8. What is the importance of seeds dispersal?								
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	7.	What is the difference between stilt root and prop root?						
	8.							

6 .An	swer the questi	ons based on	following figures	;		
		Α	В	С		
			48			
1.	Identify the n	nethod of dis	spersal and the	adaptation of f	ruits A ,B and C	for it
ว	Give 2 fruits the	at are disperse	ad in the same w			
۷.			ed in the same w	A		
3.	Which type of p	plant commor	nly has hypogeal	germination?		
4.	Differentiate th and roots.	e Hibiscus a	nd Coconut trees	based on the st	ructure of stem ,	leaves

## Unit 2 - Static electricity

1.	How can you charge a plastic pen?							
2.	What is static electricity ?							
3.	What are the types of static electricity?							
4.	. Which scientist discovered the charges created on the surface of the object when they are rubbed with another object?							
5. Following information is based on the activity to identify repulsion and attraction of different charged rods. filling the blanks based on it.								
	Suspended rod	Charge type on the rod	The brought cl	rod oser	Charge type on the rod	observation		
	Glass rod rubbed with silk cloth		Glass rubbed silk cloth	rod with				
	Ebonite rod rubbed with wool cloth		Glass rubbed silk cloth	rod with				
	Ebonite rod rubbed with wool cloth		Ebonite rubbed wool cloth	rod with				
6.	6. What happens when a charged object make contact with other object?							
7.		ment is used to ic						
	2 How can yo	u identify charge				instrument?		
8.	3. Give 2 phenomena related with static electricity.							
9.	. How does lightning is formed? Explain							
10	10. Give 3 appliances that are work on the basis of static electricity.							
13	11. Give the use of capacitor?							
12	2. Draw the symb	ol of capacitor.						
13	3. In a capacitor \	written as 10 F , w	hat do you	mean	•			
14	14. Give 2 electrical instruments which have capacitors							

	Fig A Fig2
1.	Name the process in fig A and B.
2.	What could be observed in Fig 2 ? Give reason.
3.	How you should connect dry cell and LED to the capacitor?

## Unit - 3: Production of electricity

	1.	. Give 4 source of electricity ?							
	2.	How does electricity produced in dry cell and dynamo? Explain							
	3.	Which instrument is used to measure the electric current?							
	4.	4. What is the standard international unit of measuring electric current?							
	5.	. Write the substances that are used make an alkali cell.							
	6.								
	7.	Name the positive and negative terminal of dry cell.							
	8.	What is the electrolyte of dry cell?							
	9. Give instances where button cells are used.								
	10. A dry cell connected with a center zero galvanometer . The indicator of galvanometer deflected to right , when the terminal of dry cell was reversed,. the indicator deflected to the left. What is the reason for this observation?								
11	. Th	e following diagram is a structure simple cell.							
		dilute sulphuric acid							
	1. Identify the positive and negative terminal of the simple cell								
	2. Identify the electrolyte of the above cell								
		3. What change could be observed in zinc sheet?							
		4. Denote the direction of current flow in the diagram							
		5. What change could be observed when a center zero galvanometer is connected instead of bulb in the circuit ?							

12.\	what is the difference between cell and battery?
13.\	What is direct current? Give an example for source of direct current
14.\	What is alternate current? Give an example for source of alternating current
15. I	Draw a graph Separately for AC,DC with time.
16. v	what are the advantage and dis advantage of solar cell used as electric source?
17.\	What is electromagnetic induction?
18. I	n which way electricity is produced in cycle dynamo?
19.\	Write 2 ways to increase the current produced by the dynamo
•	

#### Unit - 4: Functions of water

1.	. Give 4 substances that completely dissolved in water.							
2.	Give 4 substances that partially dissolved in water.							
	Give 4 substances that partially dissolved in water.							
3.	Give 2 gases which dissolved in water.							
4.	Give 4 instances where water act as solvent.							
5.	Give other functions of water except solvent property.							
6.	How does an aquatic animal get their oxygen?							
7	Filling the blanks							
/.	Filling the blanks							
	substances Containing chemicals							
	Battery acid							
	Acetic acid							
	Saline							
	Sugar cane juice							
8.	How is salt produced from sea water?							
9.	. How coolant property of water is used in the protection of machinery from over Heating. ? .Explain							
10	. Give 2 mammals which use water as external medium for their living environment.							
11	.Which salt is dissolved in sea water at high percentage ?							
12	12. Water is a biological medium of life . Explain.							
13	13. In which part of the human body produce urea?							
14. Give 2 examples for the water act as medium of transport.								
1 [	4F							
12	Dry cotton wet cotton							

2.	What could be observed in both set up after few minutes? Give reason.
3.	Give the instances where above tested property of water is used in day to life.

#### Unit - 5 : Acids and Bases

1. Co	mplete	the	tollo	wing	tab	le
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Substances	feature	examples
Acids		
Bases		
Neutral substances		

2.	Give acid ,base and neutral substances that are used for household needs.						
3.	What is Indicators?						
4.	Give 2 examples for natural indictors.						
5.	Give 2examples for artificial indictors that are used in laboratory.						
6.	••	•	oxide were taken as A color changes above				
	indicators	Α	В	С			
	phenolphthalein	No color change	color changes	pink			
	Blue litmus paper	red	blue	blue			
	<ol> <li>Identify the solutions A,B and C.</li> <li>which of the above solution give blue color with red litmus?</li> </ol>						
7.	What is the color of	of pH paper?					
8.	. What is the color of phenolphthalein solution?						
9.	. The pH of a solution is 2 . what is the nature of that solution?						
10.	10. What is the pH of a neutral solution?						
11.	1. Give the pH range of bases.						
12.	Give 2 acids which	ch are used in laborat	ory.				
13.	3. Give 2 acids which are used in laboratory.						

	Unit - 6 : Animal Diversity	
Complete.		
animals	Have vertebral column	Haven't vertebral column
Earth worm		
Crab		
Shark		
Snake		
Bat		
Dolphin		
Sea anemone		
Spider		
eagle		
	camouflage of animal?  n show camouflage and give th	e adaptation of those anima
Give 4 animals which		e adaptation of those anima
Give 4 animals which individually.		
Give 4 animals which individually.  1. Name 2 animal gro	n show camouflage and give th	v shape
Give 4 animals which individually.  1. Name 2 animal grown.  2. Give the important.	oups that have stream lined body	v shape
Give 4 animals which individually.  1. Name 2 animal grown and the important of the characteristics.	oups that have stream lined body ce of that body shape with respect	r shape ect to that environment.

. Complet		dichotomous key.				
	Eagle, earth worm, fish, snail , butter fly					
Have leg		Haven't leg				
agle	butterfly	Have	shell	Haven't shell		
			/			
		$\downarrow$	<b>V</b>			
				•••••		
		Fish	snake			