

## JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet - 2020 Grade - 09 | Science

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## **Unit 01 - APPLICATIONS OF MICROORGANISMS**

2.	Give the five type of microorganisms?
2	
3.	Write down 4 characteristics of virus?
1	Give 2 structures for leasonation of protogon and give suitable example to each on
4.	Give 3 structures for locomotion of protozoan and give suitable example to each one
5.	State 4 beneficial effects of microorganisms in agriculture field?
6.	State 3 beneficial effects of microorganisms in medical field?
7.	What is industrial microbiology?
8.	Give 5 instances that the microorganisms used in industries?
9.	What do you meant by bioleaching?
10	. What is bio remediation?
11	. Give 3 instances where bio remediation is used?

13	. Name 3 diseases that are caused by bacteria?
1.4	
14	. Give 3 diseases that are spread by mosquito bites?
15	. State 3 diseases caused by microorganisms to plants?
16	. What do you meant by food spoilage?
17	. What are the physical changes in food when spoiled?
10	TTT
18	. What are the chemical changes in food when spoiled?
19	. State the internal factors that are affecting food spoilage?
20	State the external factors that are affecting food spoilage?
21	. What do you meant by biological weapons?
22	N 4 1 2
22	. Name the main gas in biogas?

## **Unit 02 - EYE AND EAR**

01. State the locations of human eye?
02. Write down some protective measures to protect the human eye?
03. Draw the cross section of human eye and denote the parts?
04. Write down three layers of eye wall of human?
05. Write down the functions or function of following parts?
<ol> <li>Sclerotic layer -</li> <li>Choroid layer -</li> <li>Retina -</li> </ol>
<ul><li>4. Iris -</li><li>5. Vitreous humour -</li></ul>
06. Name the two types of cells that are found in retina?
07. Explain how the eye perceives visionary senses?
08. What do you meant by long sight?
09. Write down two reasons for long sight?
10. Draw the ray diagram for correction of short sight?
11. What do you meant by binocular vision?
12. State 2 common eye diseases that can be identified today?
13. Write down two reasons for cataract?

14. UIV				io preveilt	health problems?
			1 1		
15. Dra	w the cross	section of hur	nan ear and deno	te the parts?	
••••					
16. Wri	te down the	function of fo	ollowing parts of	human ear?	
1.	Ear lobe				
2.	Tympanic	membrane			
3.	Eustachian	tube			
	Auditory n				
	Semi circu				
17. Exp	lain to how	the ear percei	ves auditory sens	es?	
18. Wri	te down the	parts of ear th	nat are arranged o	order in transmis	sion of sound?
• • • •					
••••					
19. Wri	te down soi	me defects of l	numan ear?		
• • • •	•••••	• • • • • • • • • • • • • • • • • • • •			
			ha human aan?		•••••
20. Stat	e me audio	inty range of t	he human ear?		
••••	•••••		• • • • • • • • • • • • • • • • • • • •		
21. Stat	e the bones	in ossicles?	• • • • • • • • • • • • • • • • • • • •	•••••	
• • • •					
• • • •					
22. Wri	te down 5 p	recautions sho	ould be taken to p	rotect the huma	n ear?
••••					
• • • •					
	Unit	03 - NATUR	E AND PROPE	RTIES OF MA	TTER
	CIII				
01 Wh	at do vou m	eant by eleme	nts?		
		-			
• • • •					
02. Wh	at do you m	eant by compo	ounds?		
• • • •					

04. Write down the latin nar			
1. Sodium 2. Mercu 05. What do you meant by r	molecules?		5.Lead
06. Who was discovered the			
07. What is atomic number?			
	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
08. What is mass number?			
09. If an element contains 1	3 protons and 14 nave	trong find the	utomic number and mass
number of that element?	•	irons, ima me a	nonne number and mass
		• • • • • • • • • • • • • • • • • • • •	
10. What do you meant by h		Ac?	
10. What do you mount by 1	iomo atomic moiecui	CS:	
•			
•			
11. What do you meant by h	netero atomic molecul	les?	
	netero atomic molecul	les?	
11. What do you meant by h	netero atomic moleculus al formula of followin 2.Co	les?	
11. What do you meant by h	netero atomic moleculario de la formula of followin 2.Co	les?  les compounds  opper sulphate	
11. What do you meant by h	netero atomic moleculud al formula of followin 2.Co 4. Ac 6. Ac	les?  g compounds opper sulphate cetic acid	
11. What do you meant by h	al formula of followin 2.Co 4. Ac 6. Ac 8. Su	les?  g compounds  opper sulphate  cetic acid  etylene	
11. What do you meant by h  12. Write down the chemica 1. Calcium carbonate 3. Ethanol 5. Glucose 7. Benzene 13. What do you meant by r	al formula of followin 2.Co 4. Ac 6. Ac 8. Su	les?  g compounds opper sulphate cetic acid etylene acrose	
11. What do you meant by h	al formula of followin 2.Co 4. Ac 6. Ac 8. Su mixture?	les?  g compounds opper sulphate cetic acid etylene acrose	
11. What do you meant by h  12. Write down the chemica 1. Calcium carbonate 3. Ethanol 5. Glucose 7. Benzene 13. What do you meant by r	al formula of followin 2.Co 4. Ac 6. Ac 8. Su mixture?	les?  g compounds opper sulphate cetic acid etylene acrose	
11. What do you meant by h	al formula of followin 2.Co 4. Ac 6. Ac 8. Su mixture?	les?  g compounds opper sulphate cetic acid etylene acrose	
11. What do you meant by h	netero atomic moleculario di formula of followin 2.Co 4. Ac 6. Ac 8. Su mixture?	les?  les?  les compounds  opper sulphate  cetic acid  etylene  crose  examples to each	ch one?
11. What do you meant by harmonic in the chemical of the chemical in the chemi	netero atomic moleculario de la formula of followin 2.Cc 4. Ac 6. Ac 8. Su mixture?	les?  les?  les compounds  opper sulphate  cetic acid  etylene  crose  examples to each  tuents in a mixt	ch one?

## Unit 4,5 - BASIC CONCEPTS ASSOCIATED WITH FORCE AND PRESSURE **EXERTED BY SOLID**

01.	What do you meant by force?
02	XXI
02.	What is the SI unit of force?
03.	Write down some changes on an object that can be done by applying force?
04.	What is vector quantity and give 3 examples to each one?
05.	Write down three factors that are determining a force?
06.	What is point of application of force?
	State the factors of a force that can be graphically represented by following segment of straight line?  1. Length of straight line 2. Arrow head of straight line 3. Dot at the starting point of the segment of straight line What do you meant by pressure?
08.	What is the pressure exerted on a surface of 2.5m <sup>2</sup> , when a normal force of 400 N is
	acting on it?  The pressure was 600 Pa, when a normal force was applied on a surface area of 1.5
	m <sup>2</sup> . Find the amount of force applied on it?
	The pressure was 1000 Pa, when a normal force of 200 N was applied on a surface Find the amount of area?
12.	The pressure was 1200 Pa, when a normal force was applied on a surface area of
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13.	. What is the pressure exerted on a surface of 200cm <sup>2</sup> , when a normal force of 40 N is acting on it?
	The pressure was 600 Pa, when a normal force of 150 N was applied on a surface Find the amount of area?
16.	Give 3 instances in day to day activities for increasing pressure by decreasing area?
17.	Give 3 instances in day to day activities for decreasing pressure by increasing area?