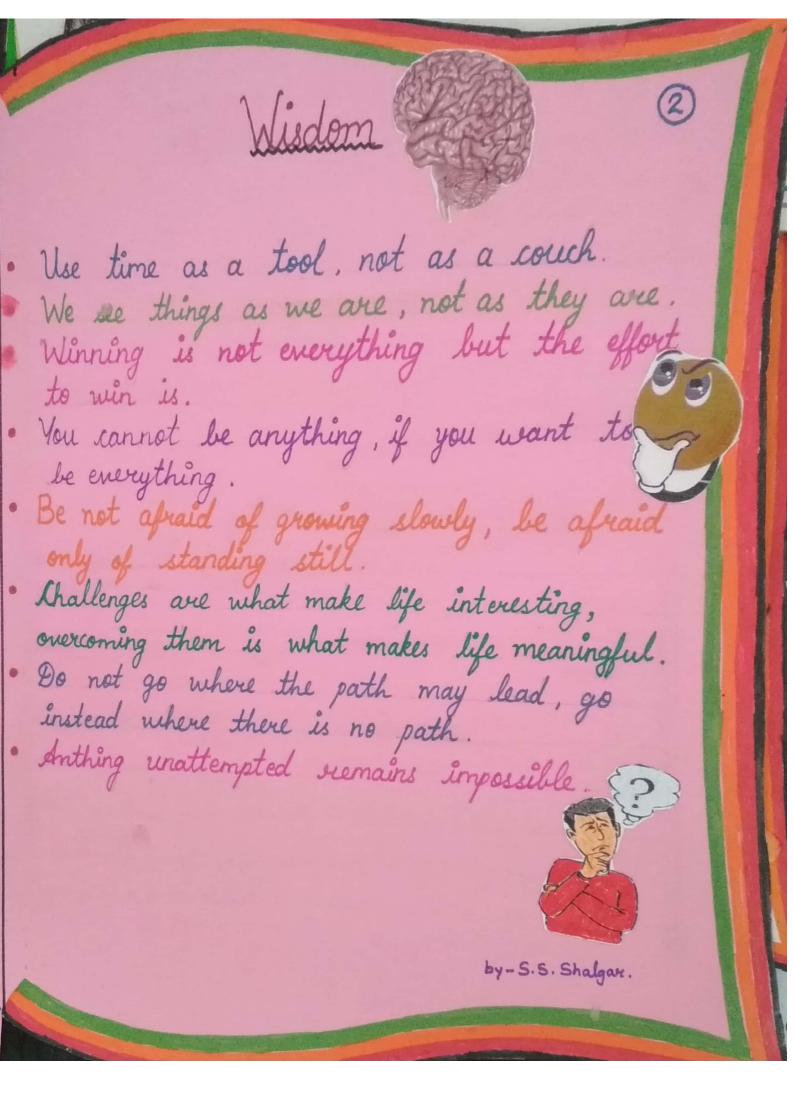
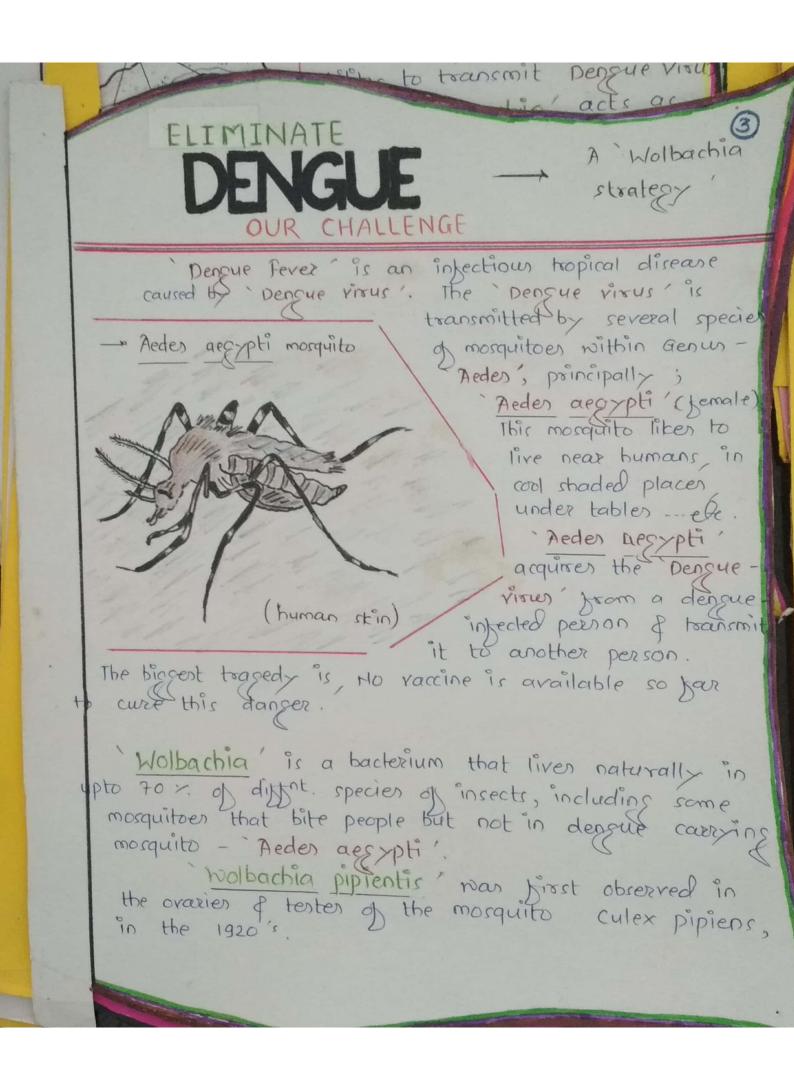
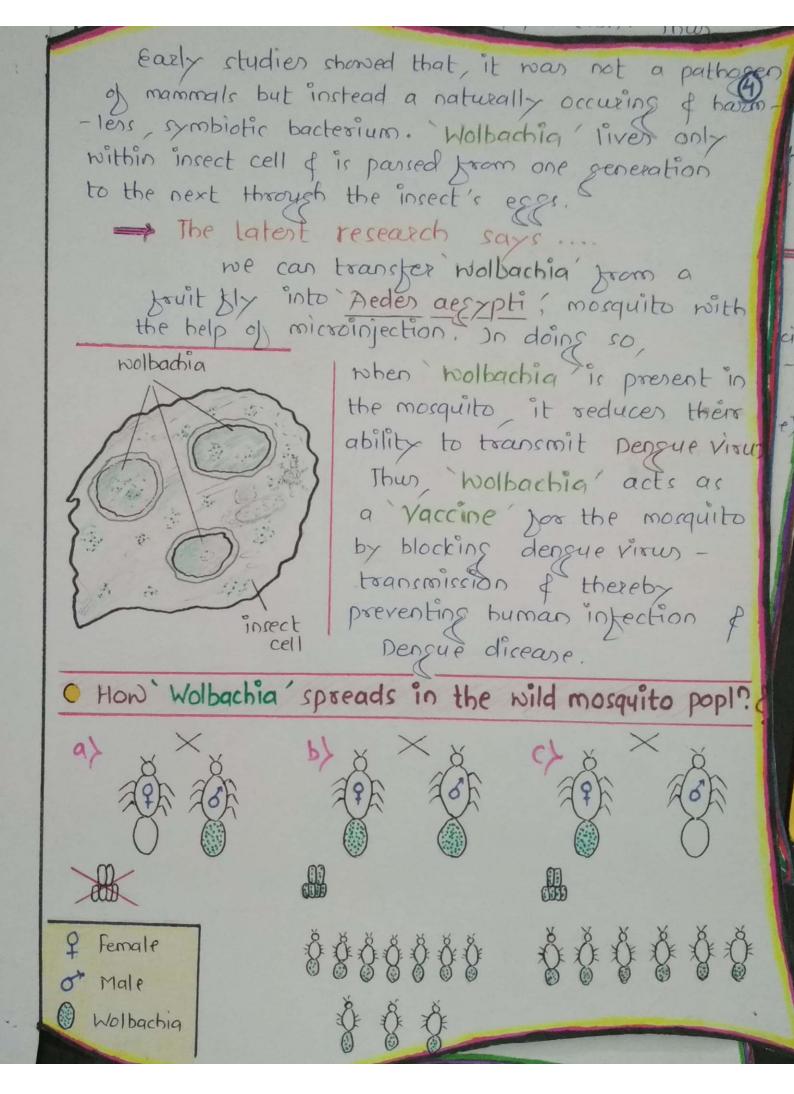


INDEX

S.R. NO.	TITTLE	PAGE No.
1.	Microbiology Poem.	1
2.	Wisdom	2
3.	Eliminate Dergue Our	
	Challenge	3
4.	News Corner	6
5.	What if microbes talk?	7
6.	Word Game	8
7.	News Corner	9
8.	Word Puzzle	10
9.	News Corner	11
10.	Laugh & make other laugh	12
11.	Quiz	13







In this strategy, we have to seed welbachia into wild mosquito population, where depoue is enderni There wolbachia injected mosquitoes will then breed with the burther wild morquito population. Thus 'wolbachia' can be passed from one generation to the next, through the mosquito ess's. And thus there would be an effective biocontroll to disrupt Densue transmission between people. However, there are distint. Kinds of control approaches like insecticide application, cleanliness of surrounding & all ... but wolbachia based strategies have several advantages ... as 1. It could be the 'effective buture vaccine! 2. The "nolbachia method" also has potential to be used on other insect transmitted direases. Wolbachia infections in mosquitoes reduce their ability to transmit other human virtuses such as chickengunya, yellow bever, malazia... ebr. 3. Wolbachia based strategies represent the desque suppression with high potential for area wide SURYA '

News Corner

No human DNA in tiger scat: lab report

'Other evidence enough to prove that it fed on humans'

Special Correspondent

BANGALORE: Scat samples of the tiger captured in Bandipur Tiger Reserve, where three people were killed earlier this month, "do not show the presence of human DNA, concludes the first scientific analysis conducted to forensically confirm that the animal was indeed a man-eater and had fed on humans.

The DNA test was conducted by the National Centre for Biological Sciences (NCBS) and commissioned by the Forest Department and the Mysore zoo where the tiger is how housed

This result, however, does not imply that a wrong tiger had been captured, said Uma Ramakrishnan, an ecologist with NCBS in whose lab the test was carried out. "There are several reasons why human DNA was not traceable in the sample. For instance, the scat sample was collected from the forest and could have been old, or not properly preserved," she told *The Hin-*

NCBS is also yet to conduct a second test to confirm that the scat sample matches the captured tiger to rule out the possibility that it could have belonged to another individual, Dr. Ramakrishnan added. "But, if human DNA had been found in the tiger scat, we would have had irrefutable evidence that it had preyed on humans.'

There was enough circumstantial evidence to suggest that the captured tiger was the one that killed three people between November 27 and December 3, said B.P. Ravi, executive director of Mysore zoo. "The tiger was found close to the site of its latest human attack, and the animal was also in poor health," he

It is also unclear how much the tiger actually fed on its human prey, Mr. Ravi said. "But there is no doubt that the tiger we have got is the one that killed three people." NCBS conducted the extrac-tion of DNA using Himedia DNA protocol. Blood and scat samples have also been sent to the Centre for Cellular Molec-

TIGER TALE

NOV. 27: Basavaraju (45) is killed by a tiger near Nidadihaadi village on the fringes of Bandipur Tiger Reserve, where he had taken his cattle to graze

NOV. 29: Tiger kills its second victim 35-year-old Cheluva in Seegevadihaadi. Witnesses describe the tiger as 'emaciated and weak'

DEC. 3: A third person, Basappa (70) was killed by the tiger. His partly eaten body was found 100 m. away from the site of the attack. Angry residents protest against Forest Department

DEC. 5: Forest Department issues 'shoot at sight' orders, even as tiger is finally declared 'maneater.'

Tiger was captured, with the help of tranquiliser darts, in the vicinity of where it had attacked its third victim Basappa in Chikkabargi forests of Bandipur Tiger Reserve and transported to Mysore zoo

THE TIGER WAS 10



Scat and blood samples were sent to NCBS and CCMB to

detect traces of human DNA to confirm that the captured tiger was indeed individual that had killed and eaten human prev

NCBS will now conduct a second test to see if the scat sample collected from the forest matches the DNA of the captured tiger

There are several reasons why human DNA was not traceable in

the sample. For instance, the yed a crucial scat sample was collected from the forest and could have been old, or not properly preserved UMA RAMAKRISHNAN, ecologist, NCBS

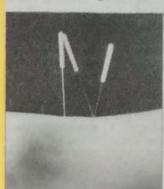
We have enough evidence to suggest that the captured tiger is the one that killed three persons. The tiger was Pplication. found close to the site of its latest human attack, and the animal was also in poor health

B.P. RAVI, executive director, Mysore zoo

ular Biology in Hyderabad for a similar DNA analysis.

A press release from the zoo said the tiger had maggot infested wounds, and porcupine quills embedded in its mouth and abdomen. The animal has been treated with antibiotic and antibacterial drugs over a week. "The wounds have completely healed and the infection has come down," it said and added that the animal "appeared healthy"

Acupuncture, real or not, eases side effects of cancer drugs



NEW YORK: Both acupuncture and sham acupuncture were effective in reducing menopausal symptoms in women being treated with aromatase inhibitors for breast cancer, a small randomized trial found. Joint and muscle pain, hot flashes and night sweats are common side effects of those estrogenlowering drugs. The trial, published online in Cancer, randomized 47 breast cancer patients to eight weekly sessions of either real or sham. acupuncture. Those assigned to real acupuncture received treatment with needles in recognized acupoints believed to be helpful in relieving menopausal symptoms. The controls got non-penetrating needles placed in sham acupuncture points. Patients and researchers did not know which patients had received which treatment. The patients kept daily diaries or filled out several questionnaires on the frequency and severity of hot flashes and other symptoms. Patient-reported symptoms, especially hot flashes, improved significantly after both sham and real treatment. There was no statistically significant difference between the two groups.

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"Indian industry's potenial to contribute to aeronautical development is yet

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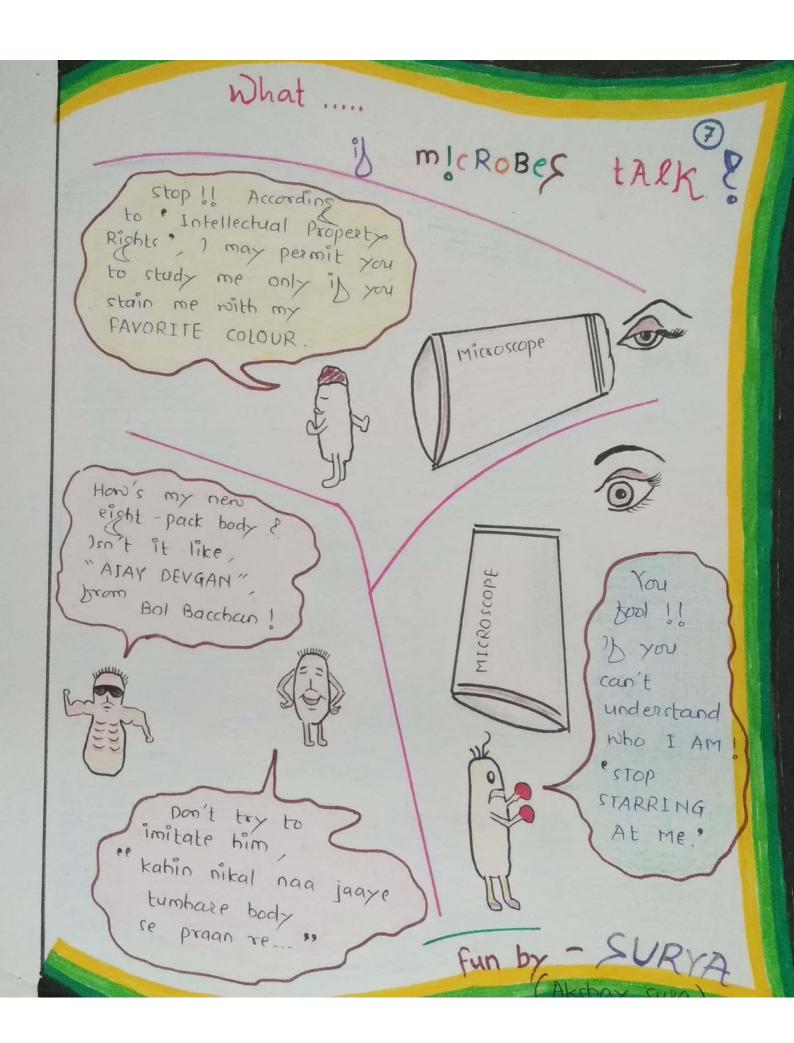
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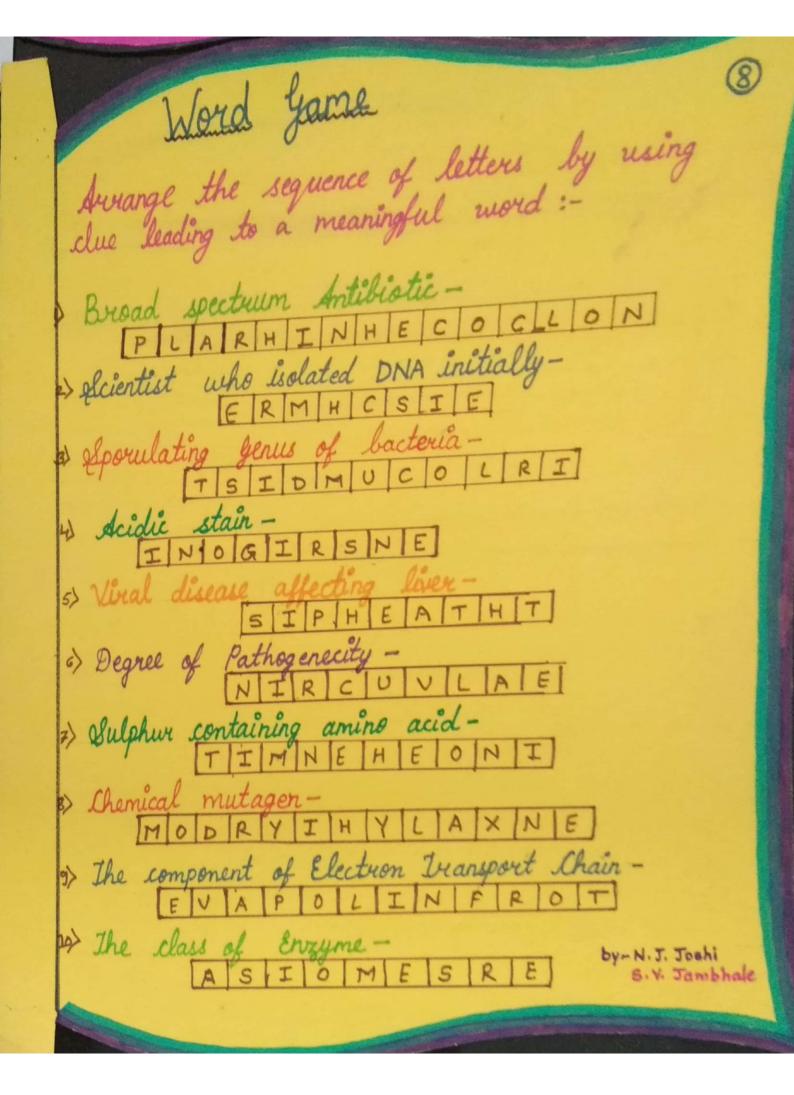
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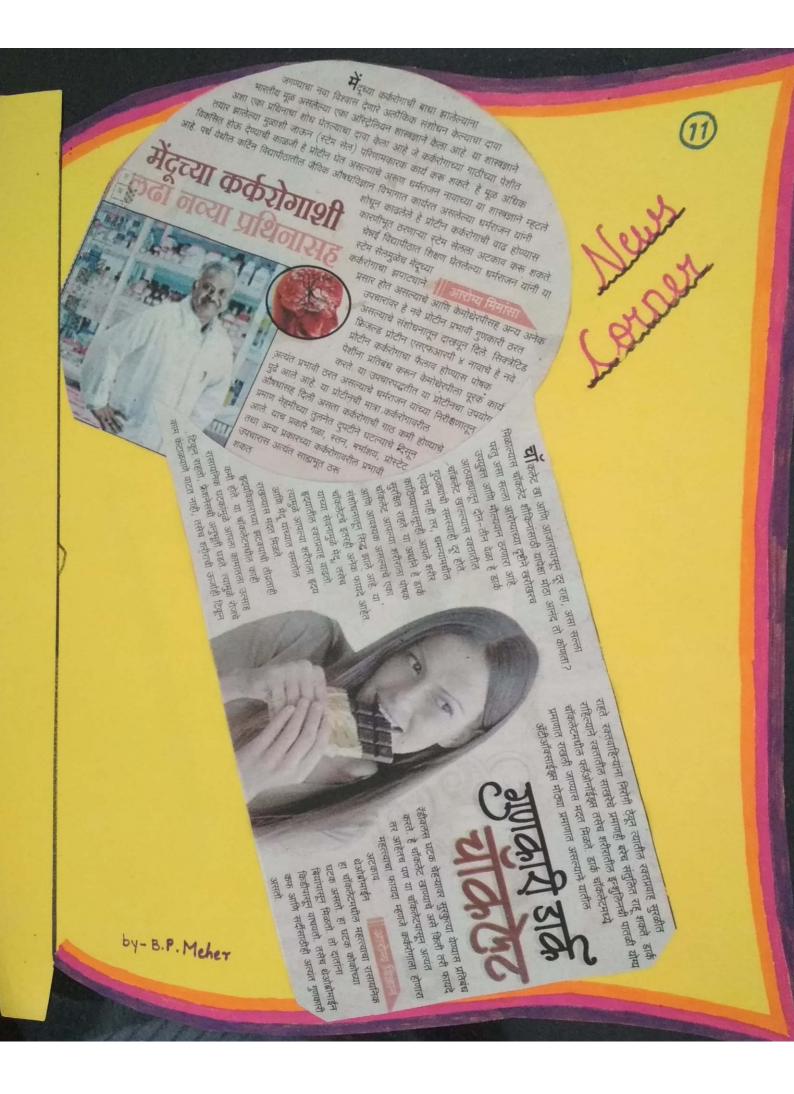
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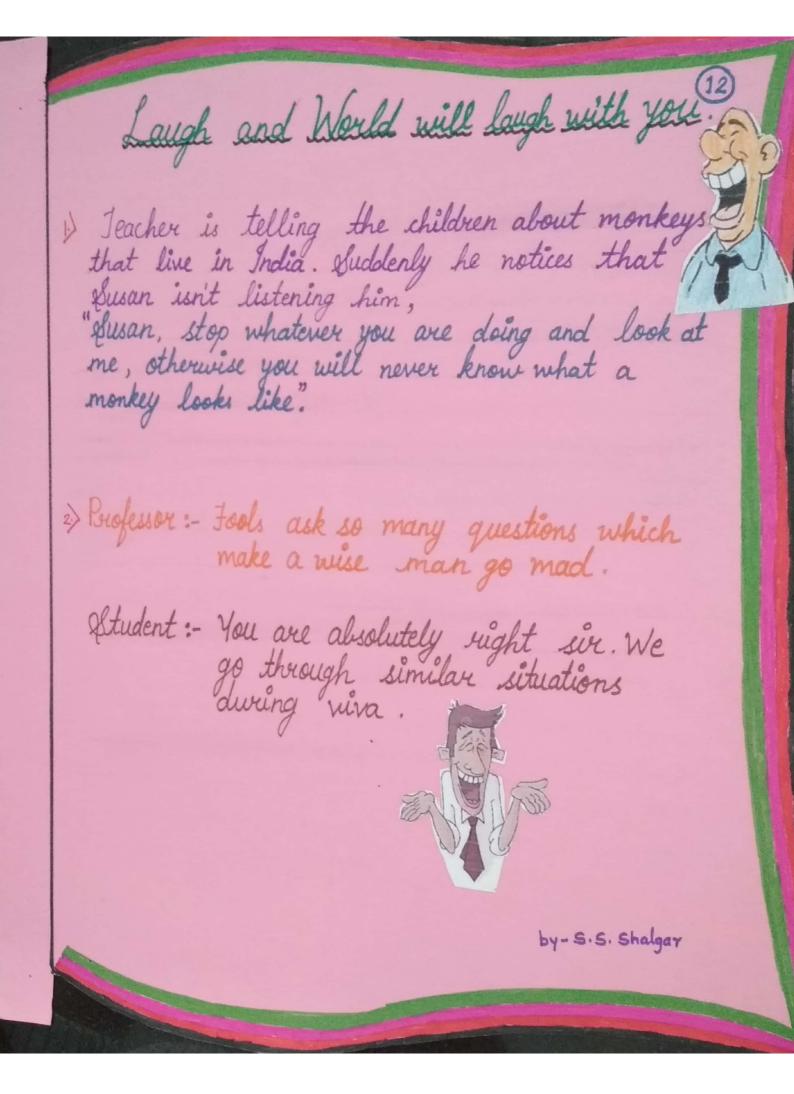


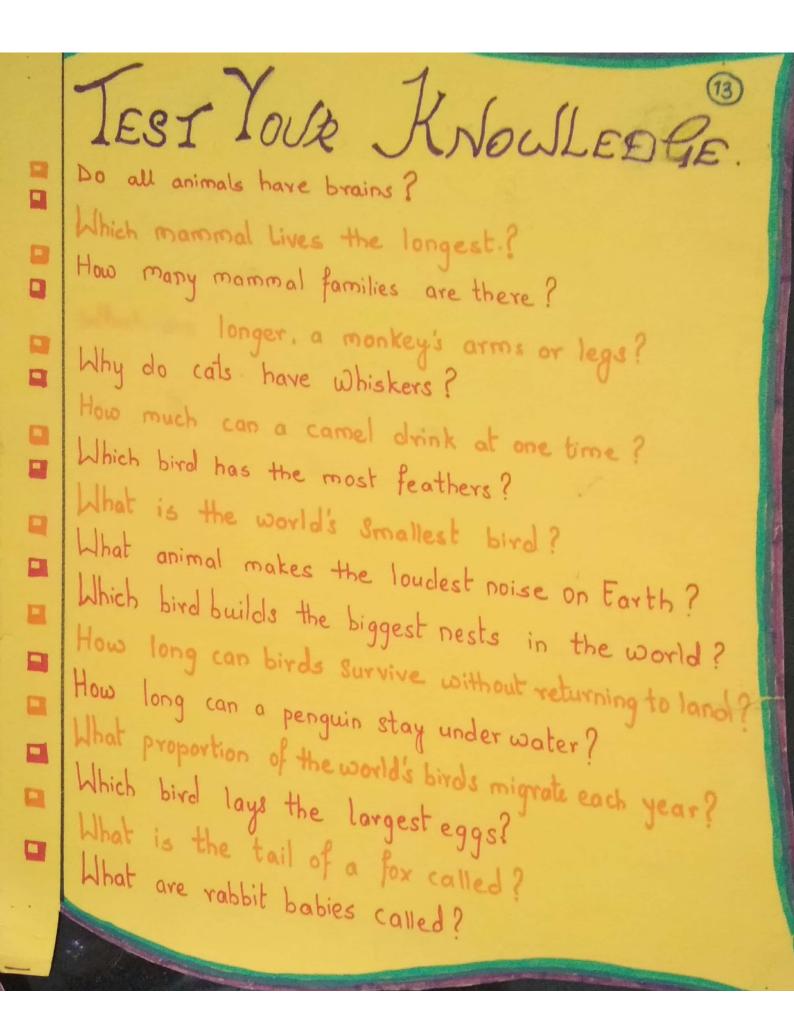


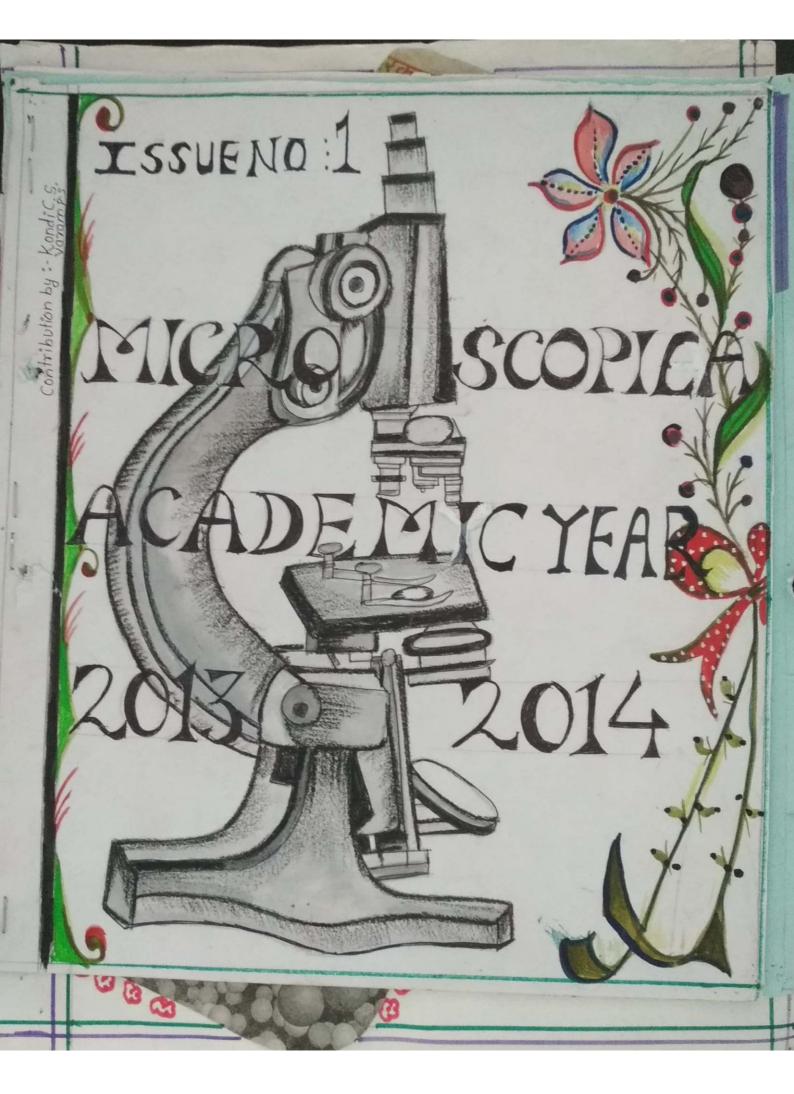


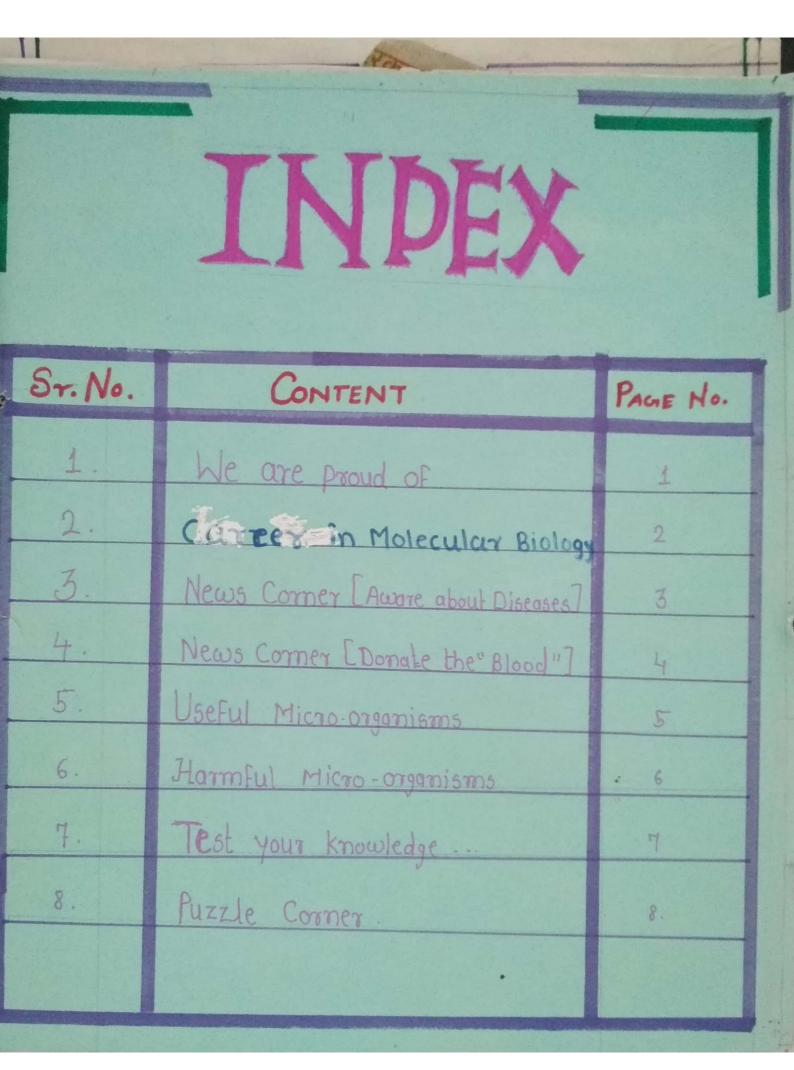
Word Ruzzell Search vertically, transversally & backwardly in the grid given below for names of 12 blood components. A H F D K K I E I T 0 L I P I H I N I H B V M L A D 0 B S R S K E A M S R I R B S 0 S T M 1 M E I I S I 0 M H 0 A C H I T S H B L N P C 0 P I H G I 0 B 0 E M C H H A P 0 S A G R C B I U 0 1 H A A I A Y T D P T 1 N T C R K 0 T A R 5 Y E S H T K E A M E M S 0 S M A A S H I H S K I S J B F U 0 H E D X A C E S A T I S 0 M G E 0 S I S H by-5.V. Jambhale N.J. Joshi

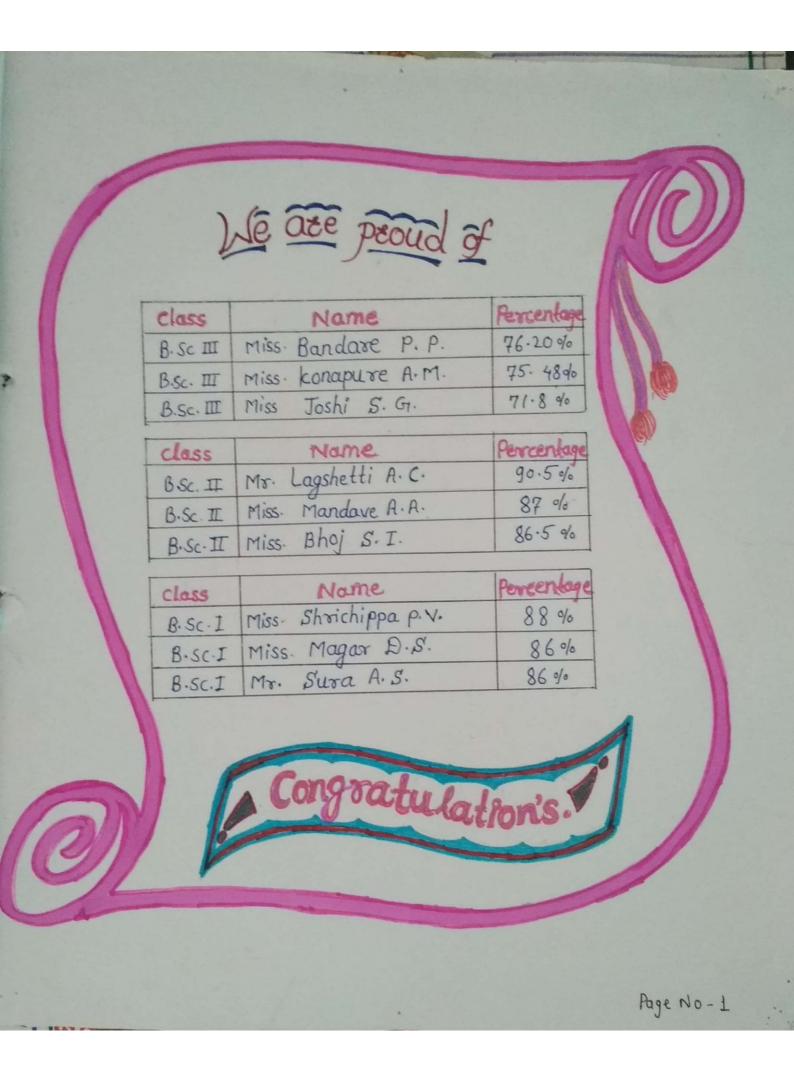


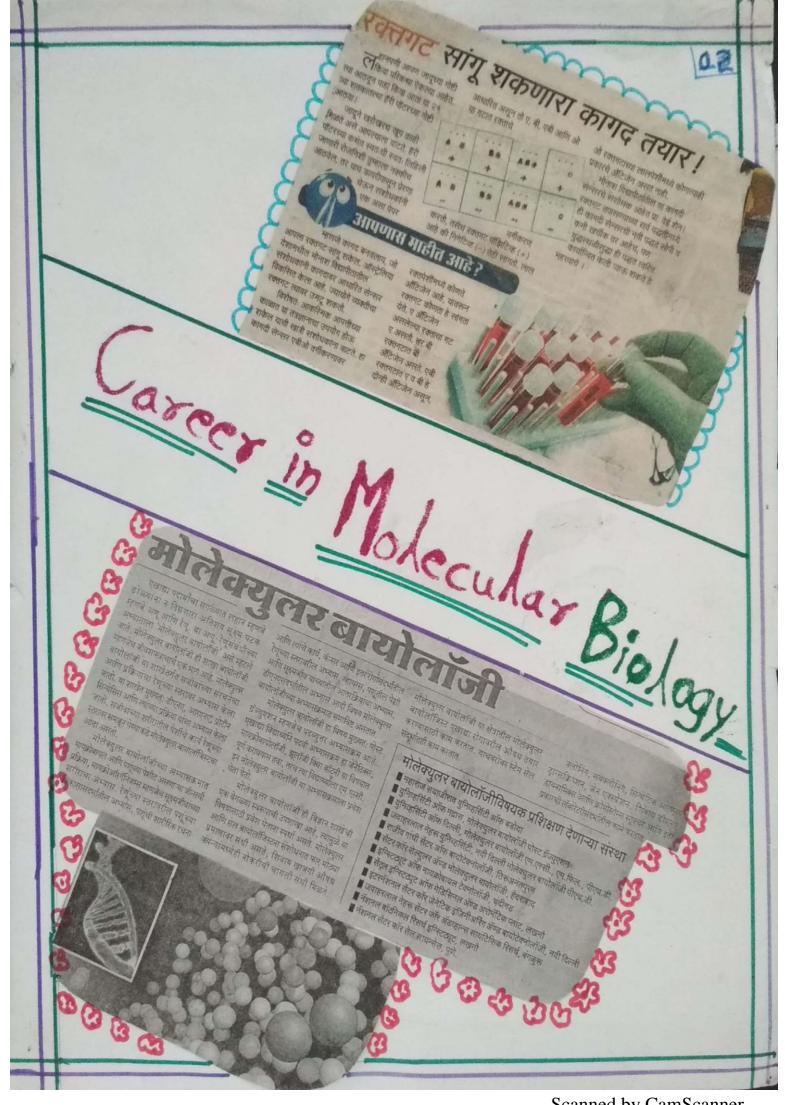












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USEFULL MICROORGANISMS

SACCHROMYCES CEREVISIAE

· Sacchromyces

Sacchromyces cerevisiae

is called Baker's yeast.

So Sacchromyces produced in large quantities for baking industry.

The Substances containing carbo-hydrate such as fruit juice.

potatoes, barley, cereals, honey



can be used as substrate. • BACILLUS THURINGIENSIS

bacteria & tungi that possess
pathogenic property against
insects or pests. Such cells are
called biopesticides:
They widely used as insect larvice
Bacteria is also cultivated
using Submerged culture
technique.

METHYLOPHILUS METHYLOTROPHUS

There are few bacteria that utilize methylophilus methylophilus methylotrophus High aeration of the medium is required.

Bacterial mass is continuously removed.



