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VOLUME 1

BIOMED FUTURA

The power of students to conquer the world

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MANIFESTATION

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Hai .... ,
What is
BioMed
Futura ?????

BioMed Futura is a Club organized by Department of Biomedical Science in Bharathidasan University. The main Goal of this club is to make students think out of their box (i.e) to make students think beyond their syllabus. This is mainly for the students to develop leadership quality , to bring them out of their Classrooms , and to make them Conquer the World. This is done by engaging the students with some activities such as Debate , Quiz etc . In addition , Personalities are Welcomed to give a talk to the Students.

BIOMED FUTURA

B– Balsamic
I- Idealistic
O– Obdurate
M– Magnimous
E– Ebullient
D- Dainty
F- Fascinating
U- Unique
T– Tenacious
U– Upstanding
R- Rationalistic
A- Adventurous

The largest snowflake supposedly measured 38 cm wide, 20 cm height in Montana 1887, At least 700 times bigger than an average flake.

ACCIDENTAL INVENTION OF PYLORI

SAHANA
M.Sc- III year BMS

Accidental invention of ***Helicobacter pylori***

Helicobacter pylori was extremely difficult to culture and was actually cultured by accident. When Warren and Marshall attempted to culture the bacteria, they were not successful because they only waited for usual two days for each attempt. They accidentally left some culture plates over the Easter holiday and colonies finally emerged.

Dr. Barry J. Marshall actually inoculated himself with H. pylori with hopes of proving that it would cause ulcers. He did develop gastritis.

Barry Marshall drank a suspension of the bacterium and proved Koch's postulates for gastritis and made the idea that H. pylori is the etiologic agent of many gastric maladies .

A new species of bee has been discovered and named "Euglossa bazinga" after the famous catchphrase of Sheldon.

SOURCE: Google

FRIENDSHIP MEANS

Brightest hopes

Darkest fears

Loudest laughter

Softest tear

Heartiest happiness

Bitter woes

Loveliest moments

Emotional outbursts

Fancy desires

Painful feelings

Noble accomplishment

Uncertain disease

RAAGAVI
M.Sc III year BMS

EDUCATION ARISES AS THE FOE OF THE NATION

K.RIFATH REESMAAN
M.Sc I year BMS

Education is a very vital tool that is used in the contemporary world to succeed. It is important because it is used to mitigate most of the challenges faced in life. The knowledge that is attained through education helps you to open the door of better opportunities that leads to success. What happens if this vital tool turns as a vile opponent. The world around us has changed and mordernised eventually. To put in a nut shell everything has been handed over to the hands of corporate from daily means to daily needs is in their hands. This have gradually penetrated in the field of education also. This has resulted in giving poor quality of education to young minds. "when money corrupts your mind, you will earn soon but the moment you earn you will reap for your sin".
Education is a powerful weapon to be used properly else it turns much critical beyond our imagination. " melt your heart towards good duds before your mind melts to corruption" when we take things serious and start working on it we can change the situation better than the past scenario. If we didn't wake up even now then we will be put in the situation that couldn't be described in words.

So the solution is " empower your minds to enlighten your hearts... thus leaving your foot steps back just not for the nation to follow it but to make more foot steps as you..." follow the principle of "each one, catch one, teach one".When we leave this picture as it is we would have to face more problem, the nation will be in trouble leading to many social evils against nature. Saving our future will be a great question with no answer so wake up soon to lead a prosperous future. "don't wait for opportunity to knock your door, you build a door and invite it, later innovate it" so friends let's begin it later the whole nation will join us.

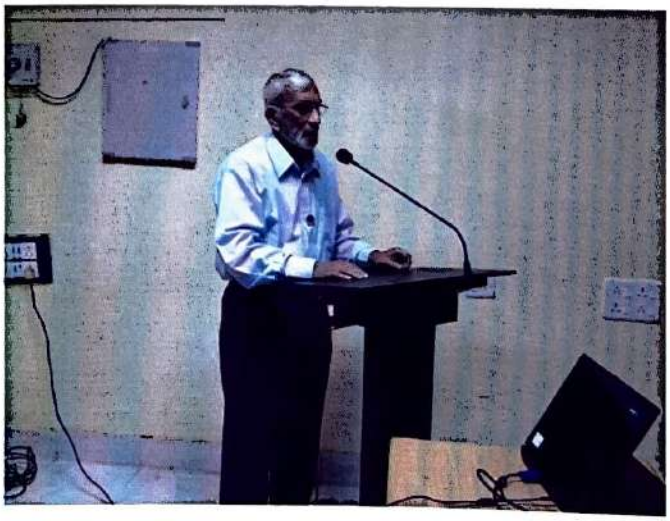
Thus friends always believe that "millions of many little things can bring a drastic change" start working for the change of tomorrow from today so that the lives of the next generations will be saved because of our willingness.

WE MADE IT!

BIOMED FUTURA FLASHBACKS....

"Dual role of Clathrin adaptor comlpex AP1 in anterograde trafficking of apicomplexan parasiteToxoplasma gondii" Delivered by one of our alumni Dr. Kannan Venugopal,

On 12-10-2017, Biomed Futura of Department of Biomedical Science, Bharathidasan University, Trichy-24 has organized a special lecture on "The Heart" Delivered by Mr. T.S.Raghu Ram,



OOHO! -THE EDIBLE WATER

MAJEELA.S
M.Sc II year BMS

A new gelatinous sphere called the Ooho contains one portion of water, then you can eat the packaging or put it in your compost bin.If you run in a race in London in the near future and pass a hydration station, you may be handed a small, bubble-like sphere of water instead of a bottle.

The gelatinous packaging, called the Ooho, is compostable-or even edible, if you want to swallow it. And after two years of development, its designers are ready to bring it to market.Three London-based design students first created a prototype of the edible bottle in 2014 as an alternative to plastic bottles. The idea gained internet hype.The new packaging is based on the culinary technique of spherification, which is also used to make fake caviar and the tiny juice balls added to boba tea. Dip a ball of ice in calcium chloride and brown algae extract, and you can form a spherical membrane that keeps holding the ice as it melts and returns to room temperature.Because the membrane is made from food ingredients, you can eat it instead of throwing it away.

The Jell-O-like packaging doesn't have a natural taste, but it's possible to add flavors to make it more appetizing.The package doesn't have to be eaten every time, since it's also compostable. "When people try it for the first time, they want to eat it because it's part of the experience," says Pierre Paslier, cofounder of Skipping Rocks Lab, the startup developing the packaging. "Then it will be just like the peel of a fruit. You're not expected to eat the peel of your orange or banana. We are trying to follow the example set by nature for packaging."The outer layer of the package is always meant to be peeled like fruit-one thin outer layer of the membrane peels away to keep the inner layer clean and can then be composted. (While compostable cups are an alternative solution, many can only be composted in industrial facilities; the Ooho can be tossed on a simple home compost pile, where it will decompose within weeks).

The company is targeting both outdoor events and cafes. "Where we see a lot of potential for Ooho is outdoor events-festivals, marathons, places where basically there are a lot of people consuming packaging over a very short amount of time,"Of course, that's assuming that people embrace the idea of drinking from a squishy, jellyfish-like blob. The designers say that people have embraced the novelty in tests. And in some parts of the world, such as sub-Saharan Africa, consumers have embraced similar (but trash-producing) plastic water sachets.At a cafe, the packaging can be made on-site, so it also eliminates the need to truck bottled water long distances. "The process that we're developing allows for them to be made on the spot, just before consumption," .

BEARD-BRAIN AND MEN

NEEL AIRZ
M.Sc II year BMS

The Science is working on BEARD these days; it is interesting to note that beards do play important role in a man's face. Has anyone wondered "Why men grow beards?" The study of this started in the early 19th century, where Sir. Nigel Barber started working on the same using the data on British Facial Hair Trends (1842-1971). The study led him to very interesting yet astonishing answers. One such answer that made me think twice is - men grow beards to attract women across the world well that's a bit surprising and interesting too.

Well this excitement didn't last long until I found something more relevant to the subject.
A number of women suggest that men with stubble beards are more attractive than others while some vote for the fully-bearded men and a few numbers prefer the clean shaved ones. Bottom line, there is no conclusive data that women across the board find men with facial hair more attractive than the clean shaved ones.

From the evolutionary perspective, it appears beards serve as a dominance mechanism and therefore indirectly a means of procreations. Throughout the history men with more beards were more dominant. That was the thing that led to the conclusion of the evolutionary perspectiv Well that's from the evolutionary perspective. As for why each of us grows our beard, well that's personal. "Personally I grew my beard because it made me feel better at times when I went blue and more over it drew attention of the people are Something that people aren't aware of beard is that it protects us (we-men) from allergies and interestingly from the deadly carcinogens from the sun light.

Facial hair in the middle 90's were so golden that even touching a man's beard without a reason would lead to a duel. It was considered as one of the most attractive things in the man (generally). Although there are people who fear growing beard and scientifically this kind of fear is termed as "POGO-NO-PHOBIA" (read it all at once).

Personally I respect men with beards though stubble or fully grown, because it is something special and more exclusive to we men.

PIPETTE

K.Girish kumar
M.Sc IV year bms

PIPETTE

A laboratory tool commonly used in many field of science, often used to transfer a measured volume of liquid.

How It Works

Many pipette types works by creating a partial vacuum to draw up and dispense liquid. The accuracy of the measurements varies greatly based on the types.

TYPES

Air Displacement Micropipette

An adjustable micropipette that delivers measured volume of liquid depending upon size.

These type requires disposable tips that comes in contact with the liquids.

Four standard sizes of micropipettes corresponds to four different disposable tip colors.

Positive Displacement Pipette

These are similar to air displacement pipettes, but are less commonly used and are used to avoid contamination and for volatile or viscous substances at small volumes, such as DNA. The major difference is that the disposable tip is a micro-syringe (plastic), composed of a plunger which directly displaces the liquid.

Chunk will be used to move the Plunger

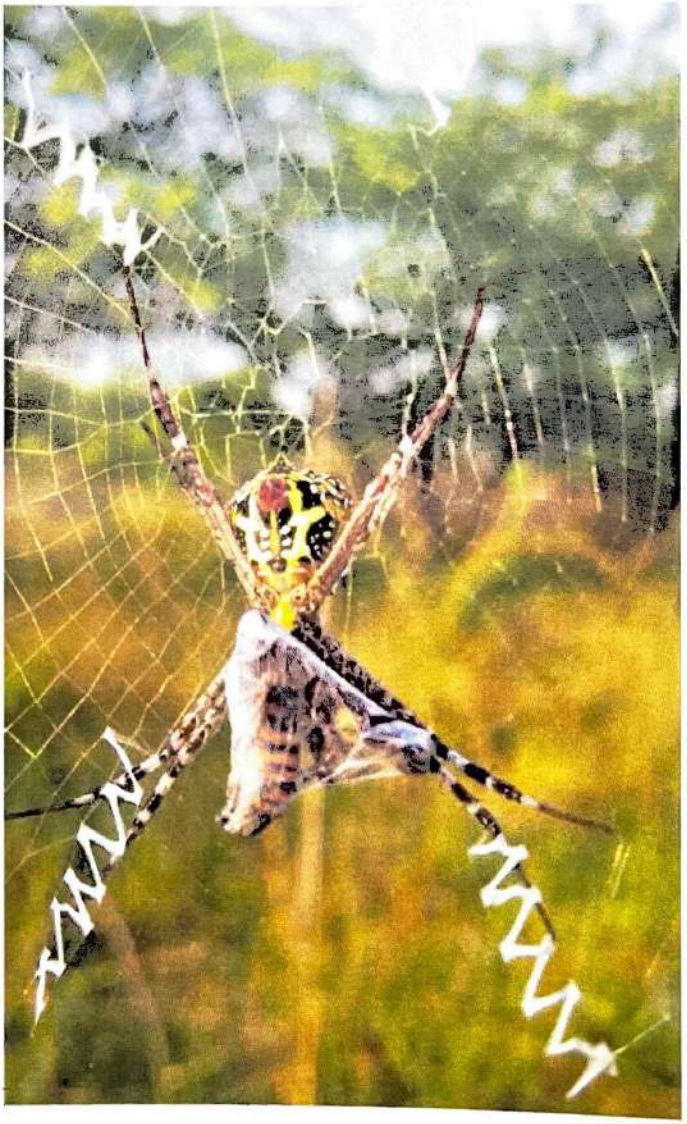
Volumetric Pipettes

Volumetric pipettes or bulb pipette allow the user to measure a volume of solution extremely precisely (precision of four significant figures). These pipettes have a large bulb with a long narrow portion above with a single graduation mark as it is calibrated for a single volume (like a volumetric flask). Typical volumes are 10, 25, and 50 mL.

Graduated Pipettes

A type of micropipette consisting of long tube with series of graduations.

They also required a source of vacuum, in early days vacuum was created using mouth. It wasn't considered a safety methodology. Therefore propipetters were introduced.



LOGESHWARAN

M.Sc V year BMS

MIND TEASER

CROCODILE EGG KEPT AT 30 DEGREE CELSIUS OR LOWER BECOME GIRLS. AT 30 DEGREE CELSIUS THEY WILL BE 50 % BOYS AND GIRLS AND AT 31 DEGREE CELSIUS THERE WILL BE BOYS. THIS IS BECAUSE CROCODILE GENDER IS NOT DETERMINED BY SEX CHROMOSOMES .

PLEASE ANSWER ME

1. How does dream occur every time in different manner?
2. Does the yawning is contagious ?
3. Why does the pimple occur only on face?
4. If a mosquito bites a AIDS infected person, then it bites the healthy person, whether the disease is transmitted?
5. We could manage to stand straightly with open Couldn't with closed eye. Why?

M.PRITHIV KISHORE
M.Sc I Year BMS

Answers for this question will be published in next Article

"செம்பு பாத்திரத்தில் தண்ணீர் குடிக்க வேண்டும்"— அமெரிக்க ஆய்வு. ஆனால், இதை அன்றே கூறிய நம் முன்னோர்கள்.

செம்பு எனப்படும் காப்பர் சத்துதான் இரத்த விருத்திக்கு தேவையான தாது உப்பு. செம்பு தாது நல்ல இரத்த அணுக்களை தொடர்ந்து அதிகமாக உற்பத்தி செய்யும் திறன் கொண்டவை என்பதால் இரத்தம் இயல்பாகவே சுத்திகரிக்கப்படும். இதனால் இரத்த புற்றுநோய் போன்ற இரத்தம் சார்ந்த உடல் நல பிரச்சனைகள் வராமல் தடைப்படும். குறிப்பாக கர்ப்பிணி பெண்கள் செம்பு பாத்திரத்தில் ஊறிய தண்ணீரை குடிப்பதால் தாய்க்கும், பிறக்க போகும் சேய்க்கும் உடல் ஆரோக்கியம் மற்றும் உடல் வலிமை கிடைக்கும்.

முந்தைய காலங்களில் பெண்களை திருமணம் செய்து அனுப்பும் போது செம்பு பாத்திரங்களை சீராக கொடுத்து அனுப்புவார்கள். செம்பு பாத்திரத்தில் நீர் குடித்தால் விந்தணு உற்பத்தி அதிகமாகும். இதனால் புதுமண தம்பதிகள் செம்பு பாத்திரத்தை பயன்படுத்தி விரைவில் குழந்தைப்பேறு, நோய் நொடியில்லா நீடித்த ஆயுள் பெற வேண்டும் என்பதற்காகத்தான். மேலும் வயிற்றுப்புண் நோயை குணப்படுத்தவும், தைராய்டு சுரப்பி சீராக செயல்பட வைத்து உடல் எடையை குறைக்கவும் இது பயன்படுகிறது. செம்பு பாத்திரத்தில் தண்ணீர் நிரப்பி வைத்தால், அறையின் வெப்ப நிலையிலேயே நான்கு மணி நேரத்தில் நீரிலுள்ள பாக்டீரியாக்கள் செத்து மடிகின்றன. ஸ்டெயின்லஸ் ஸ்டீல் பாத்திரத்தில் வைக்கப்படும் தண்ணீரில் பாக்டீரியாக்கள் 34 நாட்கள் உயிர் வாழ்கின்றன. தண்ணீரை செம்பு பாத்திரத்தில் இரவே அல்லது குறைந்தது நான்கு மணி நேரமாவது சேமித்து வைத்தால் செம்பிலிருந்து ஒரு இயல்பை நீர் பெறுகிறது. செம்பு பாத்திரம் கழுவிய நீரை செடிக்கு அடியில் ஊற்றும் போது அதன் நீரை உறிஞ்சி வளரும் செடியின் வாயிலாக கிடைக்கும் காய்கறிகள் மிகுந்த சத்து நிறைந்தவையாக இருக்கும்.

-பா. கீதாஞ்சலி

இரண்டாம் ஆண்டு

ஆதாரம்: கூகுள்

வாழ்க்கை

உன் ஆசை நிறைவேற வில்லையெனில் துவண்டு விடாதே
உன் தகுதிக்கு ஆசைப்படு அதை மறந்துவிடாதே!
நினைப்பதை அடையும் எண்ணமாய் மாறிவிடாதே!
நாளை இருக்கும் உன் எதிர்காலத்தை அழித்துவிடாதே!
உன் எண்ணங்களுக்கு வண்ணம் தீட்டு
அது வானில் பறக்கும் வண்ணத்துப் பூச்சியாய்!
உன் எண்ணம் மலை மீது இல்லை
அதை தாண்டி இருக்கும் வானத்தின் மீது வை

வாழ்க்கை என்பது நதிப் போல்
என்றுமே ஓடி கொண்டு இருக்கும்
நதி தானே என்று இருக்காதே!
நாளைபலம் பெறும் கடல் பரப்பில்
வாழ்க்கை இரண்டாவது வாய்ப்பைத் தரும்
அது நாளையாக கூட இருக்கலாம்
காத்திரு! மனதை ஒரு முகப் படுத்து!
அப்போது, அருவியில் விழும் நீரைப்போல்
துடித்து எழுந்துவா! மானிடா!

- ஸ்ரீதர் கிருஷ்ணா
முதலாம் ஆண்டு

தாய்மை!

என் தாயை பற்றி....
என்னை ஒரு இருட்டறையில்
உயிர்ப்பித்தாய்
அந்த இருட்டறையில் என்னைச்
சிறைவைத்தாய்
இறைந்து பத்து மாதம் சுமை
என நினைக்காமல் இமை
எனக்காத்தாய்
உயிர்வழி தந்தேன் உன்னை
உதைத்து
எனினும் நீ என்னைக் கண்டு
முகமலர்ந்தாய்
என் கண்ணீரால் உன்
பாதங்களைத் துடைத்தாலும்
என் கடன் பணி தீராதம்மா.....

- **ரா. புவனேஸ்வர்**
இரண்டாம் ஆண்டு

அனுபவம்

அனுபவம் என்பது பெரிதாக ஒன்றும் கிடையாது

எல்லாவற்றையும் இழந்து பிறகு எஞ்சிநிற்பதே!

-தமிழ்ச்செல்வி

மூன்றாம் ஆண்டு

"தீக்கோழியை யாராவது அச்சுறுத்தினால் அவற்றின் தலையை மணலில் புதைத்துக் கொள்ளும் என்பது உண்மையல்ல. அவற்றினை அச்சுறுத்தினால் அவைகள் இறந்தவைகளைப் போல செயல்பட்டு தப்பிக்க முயலும்."

- ஜானகி

மூன்றாம் ஆண்டு

பிறக்கட்டும் புதியதோர் உலகம்!!!!

அளவான தொழில் நுட்ப வளர்ச்சி

ஆதிக்கமற்ற கல்வி,

தகுதிக்கு மட்டும் முன்னுரிமை அளிக்கும் வேலைவாய்ப்பு

தன்னலம் பார்க்காத அரசியல்வாதிகள்,

சுத்தமான உணவு

கலப்படமில்லாத மருத்துவம்,

இயற்கையோடு இயைந்த வாழ்வு

இதையெல்லாம் தாண்டி,

மனிதனை மனிதனாய் பார்க்கும் மனிதநேயம் நிறைந்த மானுடர்கள்

இவையாவும் நிறைந்த புதியதோர் உலகம் பிறக்கட்டும்.

- சாலினி சக்திவேல்

மூன்றாம் ஆண்டு

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EXECUTIVE MEMBERS

I Years

N.Prithiv Kishore
D.Santhosh
C.Dhananjayan
M.Pugalendhi
K.Rifath Reesman
R.Abirami

II Years

R.Neel Airz
E.Ajay
B.Geethanjali
S.Majeela Solomon
S.Malathi
E.Yuva Dharshini
A.Priyadharshini

III Years

R.Nerethika
K.Kaushika
B.Sangeetha
B.Jegadeshwari
M.Vinmukilan
K.Deepika
V.Shri Sai Prriya
K.Subha harini

DRAWINGS
R.Nerethika

PRINTING INCHARGE
R.Neel Airz
E.Ajay.

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