

THE RAJINDRA

THE RAJINDRA



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SCIENCE SECTION



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SCIENCE SECTION

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Editorials

Make a Quest in the World of Science !!!

Science is the engine of prosperity. It is important because it has helped the world that we live in today. Science, after all, is a quest, and as such it's one of the oldest and most enduring stories we have. It's about searching for answers, struggling with setbacks, persevering through tedium and competing with colleagues, all eager to put forth their own ideas about how the world works. Perhaps most of all, it's about people possessed by curiosity, people who devote their lives to pursuits which the rest of us find mystifying or terrifying. It is about chasing viruses, finding undiscovered planets, dusting off dinosaurs or teasing venomous snakes.

While the importance of science in our daily lives may not always be obvious, we actually make countless science based choices each day. Whether its the cars and trains, our smart phones, the energy that lights up our chambers, the clothes we wear, the food we eat, all of these were developed and improved through research in science. It's the foundation of everything. It can fuel out nation's economic growth.

Science can form a path for our young people in a competitive global marketplace. Students have developed negative stereotypes of science and scientists, whom they view as "nerds" and they don't like taking up science as their field of study. This is a wrong perception and it needs to be changed. Students should consider the preconceptions about science with their teachers. Science is not only about long hours of study and endless experiments, rather it is a system for exploring and innovation. And it can fire our imagination

Simarjit Kaur Sidhu
Associate professor
Department of Chemistry

Science is the poetry of reality.

The word science comes from the Latin word "Scientia", meaning knowledge. Science refers to a system of acquiring knowledge. This system uses observations and experiments to describe and explain natural phenomena. The purpose of science is to produce useful models of reality. Society supports science because of the satisfaction that comes from knowledge of the world around us.

Science demands us to "Question Every thing". The result is that theories come and go, or at least are modified through time, as old ideas are questioned and new evidences are discovered. Science has made many things possible, from curing deadly diseases, to enabling human beings to walk on the moon's surface!!!

So let us enjoy the world of science.

Harshpreet Kaur
BS.c-3rd (Non-med.)
Roll no-902

"Is Science really a blessing or a curse ?"

It goes beyond doubt that everything in this universe has its uses and abuses. Science is not an exception. Bertrand Russell, a great mathematician and essayist once described science as the new god in the present day godless universe. This description seems to be quite true when we think of the power that science has acquired on human life and death in today's world, the power that traditionally belonged to gods. Whereas the power of god was believed to be wholly good and benevolent, it is difficult to say the same thing about the power of this new god.

It would not be an exaggeration to say that science has revolutionized human existence and has made our life more comfortable. Not only material progress but also the mental outlook of man has been influenced by it. Almost all the difficult and hazardous works are done for man by machines. Electricity in itself is a great wonder of Science. Communication and travelling has become more quick and easier. Numerous drugs and vaccines have cured people from dangerous life taking diseases. But all this is a one side of a coin. On the contrary, machines which have provided all the comforts to us have failed to provide the peace of mind. Moreover, they create a serious problem of unemployment and competition. Spirit of brotherhood is totally lost. Man is under constant fear of wars and destruction. So, most of the people look at science as uncontrollable monster , thirsting for human blood.

But it would not be justified to declare science as a benevolent god or inhuman monster because science itself is nothing. Infact, it is the human mind that makes it one or the other. So, the need of the hour is not to worship Science as a god or to dismiss it as a monster but to use its inventions for the welfare of mankind. Ultimately, the choice for the question, "Is Science really a blessing or a curse ?" is not between "either/or" but a choice of both; a blessing as well as curse.

Jaspreet Kaur
B.Sc. (N.M) III
Roll No. 901

FACTS ABOUT HUMAN BRAIN !!!

1. Lack of oxygen in the brain for 5 to 10 minutes results in permanent brain damage.
2. When awake, the human brain produces enough electricity to power a small light bulb.
3. Dieting could force your brain to eat itself.
4. Alcohol doesn't make you forget anything. When you get blackout drunk, the brain temporarily loses the ability to create memories.
5. When you learn something new, the structure of your brain changes.
6. When you were born, your brain was about the size it is now. That's one reason why babies have such large heads relative to their bodies.
7. The smell of chocolate increases theta brain waves, which triggers relaxation.

Jaspreet Kaur
B.Sc.(N.M.)-IIIrd
Roll No.-901

SOME INTERESTING FACTS

1. There are 60, 000 miles of blood vessels in the human body.
2. Giraffes often sleep for only 20 minutes in 24 hrs. They sleep upto 2 hrs, but this is rare. They may lie down.
3. Astronauts cannot belch because there is no gravity to separate Liquid from gas in their stomach.
4. The universe contains over 100 billions galaxies
5. The universe is expanding every hour by a billion miles in all directions.
6. It takes approximately 12 hours for food to entirely digest
7. The longest living cell in the body are brain cells which can live an entire lifetime.
8. The most powerful laser in the world, the Nova Laser at Lawrence Livermore National Laboratory, USA, generates a pulse of energy equal to 10^{14} watts power for 10^{-9} sec to target the size of a grain of sand.
9. Ten percent of all human beings ever born are alive at this very moment.
10. The hottest planet in the solar system is Venus, with an estimated surface temperature of 864F (462°C)
11. The sound travels about four times faster in water than in air.
12. The temperature can be determined by counting number of cricket chirps in fourteen second and adding 40.
13. If you were to orbit a black hole in its photon sphere and you look in one direction, you would see the back of your own head.

Pooja Rani
B.Sc.-II (N.M)
Roll No. 904

TOP 10 SCIENTIFIC DISCOVERIES:

- 1 **A NEW HUMAN ANCESTOR: HOMO NALENDI-**
Scientists announced the discovery of a previously unknown human ancestor, homo nalandi, found in a cave in South Africa.
- 2 **FREE-FLOWING WATER ON MARS:**
NASA scientists presented what they said was the strongest evidence yet of the presence of water on Mars. There are flowing salty streaks of water that vary with the seasons.
- 3 **CANCER-DETECTING BLOOD TEST:** Researchers in Sweden developed a blood test that can detect cancer at an early stage from a single drop of blood. The test can detect the disease 96 percent accurately.
- 4 **FIRST NEW ANTIBIOTIC IN 30 YEARS:**
Scientists discovered a new antibiotic, the first in nearly 30 years, that may pave for a new generation of antibiotics and fight growing drug- resistance.
- 5 **MAP OF "EPIGENOME", A SECOND GENETIC CODE:**
A team of genetics from across the country finishes building the most comprehensive map of the human epigenome. The team was able to map more than 100 types of human cells.
- 6 **BRIGHTEST GALAXY IN THE UNIVERSE:** NASA's Wide-field Infrared Survey Explorer, one of the agency's most powerful telescope, located the brightest galaxy in the universe to date. The galaxy units 300 trillion suns worth of light.
- 7 **A NEW BIONIC LENS:** Ocumentic Technology Corp, finally promised an eight-minute surgery to provide patients with bionic lenses that can improve eyesight to three time better than 20/20 vision.
- 8 **CHANGING HUMAN LEUKEMIA CELLS INTO IMMUNECELLS:**
Stanford University scientists revealed a method that may be able to force malicious leukemia cells to change into harmless immune cells.
- 9 **HUNDREDS OF NEW SPECIES DISCOVERED :** In 2015, the World Wildlife Foundation published a 4-year report begun in 2009 announcing the discovery of 211 new species in the Eastern Himalayan region.
- 10 **CRISPR GENE-EDITING ADVANCEMENTS:** Scientists reported using CRISPR to potentially modify pig organs for human trasplant and modify mosquitoes to eradicate malaria.

Compiled by:- HARSHPREET KAUR
BSC 3rd (Non-Med.)
Roll No.-902

QUARREL BETWEEN PHYSICS AND CHEMISTRY

One day physics and chemistry were coming from the opposite side in the college.

At one point of gallery, they knocked with each other.

Chem:- Hey, Can't you walk in a straight line?

Phy:- This is not my fault. This is according to law that opposite forces attract each other. I was attracted towards you, that is why, it happened.

Chem:- You Jamm ! I will destroy your face with conc. H_2SO_4

Phy:- No, no Ms. Chemistry, if I will throw you with escape velocity you will be out of this world.

Mathematics was hearing them, He came forward and said " you should walk in two parallel lines. Do you know parallel lines never meet each other?"

Some kitchen items with chemicals combination names :

* Sulphur + Gold + Cerium (S+Au +Ce)	= Sauce
* Barium + Sodium + sodium (Ba +Na+Na)	= Banana
* Oxygen + Radium + Nitrogen + Germanium (O+Ra+N+Ge)	= Orange

Jaswinder Kaur
B.Sc 3rd (Med.)
Roll No. 414

Facts about Human Body

- 1 You knew that 75% of your body is water. But did you know that 80% of your brain is water.
- 2 Cornea is the only part of your body without a blood supply, It gets its oxygen directly from air.
- 3 The average lifespan of a human hair is 3-7 years.
- 4 Most babies are born with blue eyes. Exposure to ultra violet light and melanin are what eventually brings out their true colour.
- 5 Your brain uses up about 20% of all your body's oxygen and calories.
- 6 During your lifetime, you will produce enough saliva to fill two swimming pools.
- 7 Babies can only see black and white when they are born.
- 8 Your stomach acid is strong enough to dissolve razor blades.
- 9 Women blink twice as much as men.
- 10 After eating too much, your hearing is less sharp.
- 11 A higher IQ is correlated with more dreams.
- 12 Your teeth start growing 6 month before you are born.
- 13 Aside from being Inflammable, human hair is exceedingly difficult to destroy with even a strong acid.
- 14 There are 2.5 trillion of red blood cells in your body at any moment. To maintain

this number, about two and a half million new ones need to be produced every second by your bone marrow. That's like a new population of the city of Toronto every second.

15 Your eyeballs are three and a half percent salt.

16 An average human drinks about 16,000 gallons of water in a lifetime.

Compiled by:-

Amrita B.Sc. 3rd (N.M)

Roll No. 908

What Are REM And Non- REM Sleep ?

The REM (Rapid Eye Movement) State was discovered in 1953 by Aserinsky and Kleitman. They noticed that when subjects were woken up from sleep during the phase of sleep that was characterised by "rapid, jerky, and binocularly symmetrical eye movements" they recalled the most vivid and elaborate dreams. On the contrary, when the subjects were woken up from non REM sleep however, significantly their dreams were, they were not reported. So, REM sleep was named, and has been associated with dreaming ever since.

While sleeping, first comes NON-REM sleep, followed by a shorter period of REM sleep. Dreams typically happen during REM sleep.

What Happens During Non-REM Sleep ?

It consists of three phases, Each phase can last from 5 to 15 minutes. You go through all three phases before reaching REM sleep.

Stage 1: Your eyes are closed, but it's easy to wake you up during this stage. It last for 5 to 15 minutes,

Stage 2 : You are in light sleep. Your heart rate slows and body temperature drops. During this stage, your body is getting ready for deep sleep.

Stage 3: This is a deep sleep stage, it's harder to rouse you during this stage. If anyone wake you up, you would feel disoriented for a few minutes.

During the deep stages of N REM sleep, the body repairs and regrows tissues, builds bones and muscles and strengthens the immune system.

What is REM Sleep ?

REM sleep is also known as stage 4 sleep. Usually, it happen 90 minutes after you fall asleep. Babies can spend upto 50% of their sleep in REM stage, compared to only about 20% for adults. Studies have revealed that people who go to sleep after being sleep deprived enter REM sleep, most of muscles become paralyzed and the activity of brain's neurons becomes quite intense. This inactivity is a cause of snoring and other breathing problems. Some people don't experience the paralysis, their muscles continue to move, even while they are in REM sleep. They may act out their dreams in violent or dramatic ways, this is a condition called REM behaviour disorder (RBD).

Jaspreet Kaur

B.Sc. III (N.M), R.No. 901

A GEOMETRICAL LOVE LETTER

Circle colony
 Rectangular Garden
 House no. a-b
 City : Geometry, Dist: Arithmetics

My Dear Imagination,

Yesterday, when I saw you in circle of your friends in the pentagonal park, my two eyes were concentrated on you, making an angle of 45° . You were sometime diagonally and other times vertically opposite to my angular view. I tried to meet you, but it was like trying to make two parallel lines meet together. Your thin eyebrows and gentle nose with cylindrical elbow resting at the rectangular table at 90° , divided my attention into two halves. Your company could cause either an elevation or a depression in my attitudes.

Mathematically yours,
 Acute Angle.

Raju Jindal
 B.Sc. - III (N.M)
 Roll No. 909

SOME GREAT SCIENTIFIC FACTS

- Scientist have found a drug called 'TOLCAPONE' that makes people more compassionate.
- Antibiotics can improve autism, a mental condition characterized by great difficulty in communicating, in some children.
- Sweden is building the world's first carbon-negative data centre.
- NASA has found nitrogen, a key 'life ingredient', on Mars!
- Australia's largest solar farm is now feeding power to the national grid.
- Chinese scientist have built the world's first hydrogen-powered tram.
- Flying cars could hit the market as early as 2017!!
- New study suggests that night owls have psychopathic traits.
- Scientist have engineered a new type of yeast that would reduce the properties that give us a hang over.
- Adding a little coconut oil to boiling water before cooking rice and then refrigerating it for twelve hours can reduce calories.

HARSHPREET KAUR

B.Sc. 3(N.M)
 ROLL NO . 902

Do you Know ?

1. Mandruk (Africa) is the plant which looks like a human being, when we cut the plant, it cries like a baby.
2. A rat can live more days than Camel without water.
3. Rats attempt suicide, but they suicide in groups.
4. Human nose can identify hundreds of fragrances and can even remember these fragrances.
5. Butterfly smells with her wings.
6. Coal is known as black diamond.
7. Queen Alexander is the largest butterfly in the world.
8. Western Pygmy blue is the smallest butterfly in the world.
9. Hemlock is the most poisonous plant in the world. It is said be the plant used to kill the great ancient Greek philosopher Socrates.

Mandeep Kaur
(B.Sc. Medical-1)
Roll No-10

MATHEMATICAL LETTER

Mathematics Nagar,
Geometric street,
58"19'

My Dear Trigonometry.

With due calculations, I am asking your opinion about the marriage of my son, Mr Zero with your daughter Ms Infinity. I have consulted Mr. Statistics. You also know that they love each other so much that either of them dies for the other. The proof is given below.

Any digit/ Zero = Infinity Any digit/ Infinity = Zero

I think match is suitable. Would you kindly tell me after consulting the formula and logarithm tables, suitable day for the multiplication., With regards.

Your Proportionately,
Algebra

Priyanka Rani,
B.Sc.- 3rd (Non-Med)
Roll No. 935

MY EXPERIENCES IN CHEMISTRY LAB !!

It is well known that 'Science' is incomplete without performing the experiments, without chemicals and without reagents. So, all thanks to the CHEMISTRY LAB of GOVT RAJINDRA COLLEGE which served out its purpose quite well. Being dedicated to her work, Simar mam expected the same from my classmates Even today. I remember the first day instructions given by Simar mam. Some worth mentioning are.....Practical files should be well covered, be attentive and alert, lab coat is compulsory to wear. Trust me, the day someone would forget his/her coat; he/she would leave no stone unturned to arrange it somehow. It was maam's loud and clear voice which used to remove all our tiredness.

In this way, two years passed with some worries, some joys and some laughs. The day someone would break the apparatus, the loud cracking sound would create a feeling of terror initially; but with time and proper guidance we learned to handle the things out.

Finally; it was our IIIrd year of B.Sc; and a big surprise was awaiting us all. The surprise was a change....., i.e. our class got the entire new faculty for the Chemistry subject. So, at present, we have Parveen mam and Satveer sir to guide us in the Chemistry Lab. Parveen mam is so soft spoken, that her smile makes your day. The moment you miss out some techniques of performing an experiment, there you find her standing along with you to help you out.

Rushing out through the lab, smelling different gases and then making irritable faces, preparing colourful compounds and much more this was all a part of our journey in chemistry lab during our graduation years So, it was an enriching experience throughout.

HARSHPREET KAUR
BSc-IIIrd (Non-Med)
Roll No-902

Amazing Science Facts.

1. The average person walks the equivalent of five times around the world in his lifetimes (80 years fage)
2. At over 2000 kilometers long, the great Barrier Reef is the largest living structure on Earth.
3. The average human body carried ten times more bacterial cells than human cells.
4. There is enough DNA in an average person's body to stretch from the sun to Pluto and back-17 times.
5. All the planets of the Solar System could theoretically fit in the space between Earth and the Moon.
6. Russia is bigger than Pluto.
7. The Mediterranean Sea once dried up almost completely (around 5.5 million years ago).
8. An asteroid once destroyed a massive forest in Siberia without ever hitting the ground.
9. The oceans contain enough salt to cover all the continents to a depth of nearly 500 feet.
10. An electric cell can produce a shock of up to 650 volts.
11. If every star in the milky way was a grain of salt they would fill on Olympics sized swimming pool

Sanjay Goyal, B.Sc. Medical -I
Roll No. 86

IF THERE HAD BEEN NO MOON

Moon, earth's sole natural satellite, is stellar body bound with the Earth. There are many such phenomena which would have been no longer possible if there would have no moon.

- * The nights on the earth would have been much much DARKER
- * The days on the earth would have been much much SHORTER
- * The Tilt of the Earth's axis would have been different due to which there must have been great effect on SEASONS.
- * The sea tides would have been much much low..
- * There would have been no ECLIPSES.

Vipan Kumar
M.Sc. Physics
Roll No. 7414

Some Famous Discoveries & Inventions

- Marie Curie is famous for the discovery of Radium and Polonium.
- John Dalton is famous for the Identification and Presenting the Atomic Theory.
- Michael Faraday is famous for his contributions in electro-chemistry and electromagnetism.
- Rosalind Franklin is famous for the discovery of DNA in Genetics.
- Mario Molina is famous for the discovery of ozone hole in the Antarctic.
- Joseph Priestly is famous for the Invention of Soda water.
- Galileo is the inventor of Telescope.
- James watt is the inventor of Steam Engine(Condenser).
- Joseph J. Thomsen is the inventor of electron.

Parneet Kaur
B.Sc-1 (Med.)
Roll No. 09

What do Science Subjects Say.....

In the Class of Chemistry

Inorganic, Organic & Physical have different history.

Whereas in Inorganic, Periodic Table is famous,

While in Organic, benzene covers the half of our syllabus.

In the Physical, measurements have their importance,

So In all these, we can't show ignorance.

If we talk about the term 'Botany'.

So many plants are there showing different anatomy,

In case of Zoology, study of animals is there.

Dissection part follows with very care.

General characteristics show many similarities,

So, they are important to learn for their clarities.

Botany and Zoology are full of diagrams,

Whereas in chemistry, all article are systematic.

So we will have to study all these,

Then we can increase our mental grease.

Now, it is crystal clear,

We can now study without fear

Parneet Kaur
B.Sc (Med.)-1
Roll no. - 09

Mangalyan : A Great Achievement of Indian Scientists

"India enters super exclusive Mars club"- A leading news of "Times of India" on 25 sept.2014 was demarking the great achievement of the INDIAN scientists. On 24 sept. 2014, Indian scientists were successfully able to incorporate the unmanned 'Mangalyan' spacecraft into the Mars orbit . The Mars orbit mission (MOM) a mission to mars by ISRO (Indian Space Research Organisation) got off to flying start on 5th November, 2013 from the Satish Dhawan space centre at (Shriharikota) at 2:38 pm .The launch vehicle ISLV-C25 successfully injected the spacecraft into an elliptical parking orbit around the Earth. It was the signal of the red planet (Mars). According to this mission, if everything went on the right way during its journey, then it had to be inserted into the mars orbit on Sept. 24, 2014 , which was really achieved. Later on, as the spacecraft was put into space , the action in MOM was shifted to Bangalore based, tracking centre ISTRAC(ISRO Telemetry, Tracking and command Network).

The spacecraft is having five scientific instruments which are

- i) **Methane Sensor for Mars (MSM)** looks for methods in the maritan atmosphere. The presence of this gas might be an indicator of life on the planet.
- ii) **Lyman Alpha photometer (LAP)** measures the relative abundace of two isotopes of Hydrogen in order to understand the process by which Mars has been loosing its atmosphere.
- iii) **Mars Exospheric Neutral composition Analyser (MENCA)** analyse neutral gas atom found in the outermost part of martian atmosphere.
- iv) **Thermal infrared imaging Spectrometer(TIS)** maps the surface temperature and infer the composition and mineralogy of Mars.
- v) **Mars Colour Camera (MCC)** provides images of Martian surface features and weather events such as dust storms. It can also supply the images of mars two moons, phobos and Deimos.

The motive of MOM(Mars Orbit Mission) or Mangalyan is to analyse the Mars surface feature, morphology, mineralogy and Martian atmosphere.

The achievement of Mangalyan creates the history for India, as it becomes the first Asian country to reach the Mars. Simultaneously, other countries like Russia and Europe, boosting to achieve this have ended with failure. According to a former ISRO chairman, Dr. R.K Radhakrishanan, 51 countries have launched their spacecraft to Mars, out of which only 21 are able to reach its destination. This is enough to specify the difficulties An Astrophysicst, Dr. Roberto Jrotto in his first book ' The Edge of the sky' defines the Mangalyan as ' space car flying to red crazy star."

This achievement is a moment of absolute glory for the Indian scientists and is hopefully an incentive for the next generation who want to take up and persue science. The high end technology in Maglayan despite posing a very low cost, has attracted the global media. The triumph of the Indian scientists has made the new generation of India enthuthiastic to pave their path in the field of Science.

Pooja
B.Sc.3 (N.M)
Roll No. 904

Years Ago.....

- 100 years ago :The first virus was found in both plants and animals.
- 90 Year ago: Cellphone was invented .
- 80 Years ago: The food mixer and the domestic refrigerator was invented.
- 70 years ago: PVC (i.e. Polyvinyl chloride) was invented.
- 60 years ago: Otto Hann discovered nuclear fission by splitting uranium.
- 50 years ago: Velcro was invented.
- 40 years ago: An all-female population of lizards was discovered in America.
- 30 years ago: The computer mouse was invented
- 20 years ago: Pluto's moon; Chiron was discovered.
- 10 years ago: First patent for a genetically engineered mouse was issued to Harvard Medical School.
- 5 years ago: The first successful cloning of human embryo.

Harshpreet Kaur
B.Sc.-III (Non-Med.)
Roll No. 902

CAN YOUR BLOOD GROUP DETERMINE YOUR PERSONALITY?

Can Your Blood Group Determine Your Personality ? interestingly, The Answer Is 'yes'.

Type O:-

These are the social butterflies. Often popular and self-confident, these people are very creative and always seem to be the center of attraction. Organized and determined, their stubbornness helps them reach their goals.

Type A:-

Type A people may seem calm on the outside, but actually they are filled with anxiety and worries. Though they are shy and sensitive, but at the same time they are stable and thoughtful too. They prefer to be fashionable.

Type B:-

Type B people are goal-oriented, strong and optimistic. These are impulsive individuals who often create their own path in life. They are good at reading people and providing support.

Type AB:-

Not surprisingly , AB type people can be of dual character , i.e. possessing both A and B traits. These type of people are easy going, logical and trustworthy too. Their patience, concentration and intelligence are admirable.

Harshpreet Kaur
B.Sc -3rd (Non-med.)
Roll no- 902

"FACTS ABOUT HUMAN BODY"

1. The higher your IQ, the more you dream
2. Your eyes remain the same size after birth but your nose and ears never stop growing.
3. Your teeth start growing six months before you are born.
4. If your saliva cannot dissolve or mix with food you will not be able to taste that food (try tasting something after drying off your tongue.)
5. Your stomach acid is even strong enough to dissolve razor blade. It doesn't destroy the stomach because the stomach walls constantly renews itself.
6. If you laid all of your blood vessels end to end, they would stretch 60,000 miles, or around the world nearly two and a half times.
7. Crying releases extra stress hormones, which is why you feel better after doing so.
8. Fingernails grow nearly four times faster than toe nails
9. Your immune system destroys at least one cell everyday that would have become cancer if it lived.
10. You knew that 75% of your body is water , but did you know 80% of your brain is water?

Jaspreet Kaur
B.Sc. (N.M.) -III
Roll No. 901