

# The CJM Gazette

## The Ruminative Appraisal

*"That's the real trouble with the world, too many people grow up"*  
— Walt Disney

APRIL-MAY-JUNE 2019

### LETTER FROM THE EDITOR

I have been an avid reader of the school magazine. I have analysed each issue of 'The Happenings' with utmost attention and concentration. From Literary to Sports, I have thoroughly enjoyed reading each section every year. I also had the opportunity to contribute to the esteemed magazine as part of the editorial board. The school magazine inspired me to create a monthly newsletter for the school. I wanted to create a space for students to express themselves and give them a more personalised insight into the school. And thus, The CJM Gazette Newsletter was founded.

This platform offers students a voice and encourages them to read and share their articles, stories and poems. With the newsletter, my vision is to create something innovative, something that would stand out, be authentic and can take students beyond the pages of textbooks. The mission is to inspire you by making you aware of what goes on around the world as well as right here, in our very own school. Personal to the students and the school, it will inform you about monthly upcoming competitions (in and outside school), important celebrations, exam dates, current affairs and much more, providing the how-tos and resources so that your own vision, goals and dreams would become attainable to you in your unique way. The aim is provide you with knowledge as well as entertainment as we (the editorial board) dive into unknown realms to get you the best content and articles. As you read about mysteries, far away galaxies, and tragedies, we want you to develop a thirst for answers, and leave you curious, wanting to know more.

I feel especially grateful to be working on a dream come true and to be working with an exceptionally amazing board full of talented writers and artists. I plan to give the newsletter my best and make it the go to source for students - whether it is to learn about various competitions, events happening in school, or to read articles about riveting subjects and world affairs. It is indeed a great honour to be the editor and I am delighted to introduce you to the first edition of The CJM Gazette . I hope you look forward to and enjoy reading each issue as much as we enjoy making it.

**-Aahana Sehrawat**

## UPCOMING EVENTS

**JULY 11, 2019**

Prize Day- Junior School

**JULY 15, 2019**

PTM with Principal V

**JULY 17, 2019**

Hindi Kavya Paath IV

**JULY 22-30, 2019**

Unit Test XI, XII

PT 1 IV-X

## AGM

The Annual General Meeting of the school was conducted on the 27th April 2019 for the entire school. The theme of the meeting was Multiple Intelligences and dances were presented on the same. The guest speaker was Mrs. Jyotsna Bharadwaj, an eminent psychologist who spoke about the theory proposed by Howard Gardner. The retiring staff as well as PTA members were felicitated and the show was a splendid one which ended with the centenary song being sung by the school choir.

## UNITY IN ADVERSITY

There are many truths in life that grow to be more than the facts they are. The Earth goes around the Sun, New Delhi is the capital of India, alien life does not exist. These are statements that have gone undisputed for so long that they become interwoven with the definition of our reality, often enough they become the foundations of it. What if the sun were to turn into a black hole the next minute? What if Mumbai became the new capital due to political turmoil? What if tomorrow we were to find extraterrestrial life on Mars? It would be an understatement to say that it would shock the base on which our world rests. Such was the case with the fire that brought down the widely recognizable spire of Notre Dame on April 15, 2019.

Religion and art are the two of the most important facets of life that humans hold in high regard, because through these means we understand ourselves: the knowledge of our past and the hopes of our future, what we are supposed to value, and most importantly, our place in the universe. The construction of Notre Dame (from 1163 to 1345), a building with huge cultural, religious, architectural and historical significance, is a testament to this. Patrons world over have donated over 700 million USD to reconstruct the fallen structure, as the exigencies of this tragedy demanded, showing that we as a race value our heritage and divinity, be it in faith or art. Such worldwide sorrow inspires unity in us as it guides us through the rediscovery of our common need for sacred spaces where we can cherish and celebrate life in all its forms.



- Ananya Adhiguru, XII-A



# JALLIANWALA BAGH MASSACRE

“कोमल बालक मरे यहाँ गोली खा कर,  
कलियाँ उनके लिये गरिना थोड़ी ला कर  
आशाओं से भरे हृदय भी छिन्न हुए हैं,  
अपने प्रिय परिवार देश से भिन्न हुए हैं।  
कुछ कलियाँ अघखिली यहाँ इसलिये बढ़ाना,  
कर के उनकी याद अश्रु के ओस बहाना।  
तड़प तड़प कर वृद्ध मरे हैं गोली खा कर,  
शुष्क पुष्प कुछ वहाँ गरि देना तुम जा कर।”

Excerpt from 'Jallianwala Bagh Mein Basant' by  
Subhadra Kumari Chauhan



April 19, 2019, commemorated a hundred years since the bloodbath in Jallianwala Bagh. It has been a century, and yet the immense loss of that grave day is as good as fresh in the hearts of the citizens. The public garden, which is now a memorial of national importance, witnessed the death of several hundreds of peaceful Baisakhi celebrators. The families of those injured in the terrible event still recount the day with grief and embers of anger in their eyes.

The sheer number of fatalities that day is a testament to the pain and suffering of a violent and oppressive two hundred years of British rule over India, a period of tremendous exploitation and degradation, whose marks we still see in the form of regional tensions and racism.

The aftermath saw different ways of mourning of the populace. Subhadra Kumari Chauhan, Hasan Manto, Abdullah Hussein and Krishan Chander, being few of many, spun their grief into retellings and tales of anguish, with the hopes of sharing their pain with the nation, hopes of inciting in the hearts of citizens the intense pain they felt. Some turned that sorrow into anger and vengefulness as witnessed by the rise of the nationalist movement and the way the people of India wove a history of pain and loss into a fight for their sacred motherland.

The British government owes an apology to India, not because we demand it of them, not because the nation requires that sentiment from them to move on, if it is possible, but because an apology would be the first step of many for the British to atone for the atrocities that they have committed in their long history of colonization.

- Ananya Adhiguru, XII-A

## A STUDY IN HUMANE BEHAVIOUR - 'Wasteland, Baby!'

'Wasteland, Baby!' is the latest album by Andrew Joh Hozier-Byrne. Professionally known as Hozier, he is an Irish singer who shot to fame in 2013 after the release of his debut single, 'Take Me To Church', which has been certified platinum in several countries.

His work caters to lovers of indie rock and contemporary R&B. Penned by his own hand, his songs are often the culmination of his take on the world. In 'Wasteland, Baby!', the themes are varied ranging from taking power from the corrupt as in 'Nina Cried Power' to humanity's relationship with love in the face of the end of the world, in the titular track. But all the songs on the record play a familiar chord that doesn't fail to tether us to our humanity.

The symbolism in his work is used to explore humanity's relationship with the emotional spectrum.

His metaphors are elaborate and intrinsic to his work. They convey the message with clarity; although not much by words but by painting a picture in your head and singing the emotions to life. The medley of instruments is not in the background or foreground but tells as much of a story as his voice. The music uses us as a medium to connect the world that he creates with the reading world. A favourite would be the track, 'Would That I'. It explores the role of love in life and the destruction of it in a complex metaphor that pans through the whole song. The wordplay is brilliant and the fast-paced but gentle, almost western folk sound of it aids his voice beautifully.

Hozier is a genius in his field and listening to his music is an experience that changes your perspective, an ideal that artists should embody.

-Ananya Adhiguru, XII-A



## THE LITTLE VIOLET

"The plain fact is that the planet does not need more successful people. But it does desperately need more peacemakers, healers, restorers, storytellers and lovers of every kind. It needs people who live well in their places. It needs people of moral courage willing to join the fight to make the world habitable and humane. And these qualities have little to do with success as we have defined it."

David W. Orr

The Oxford dictionary defines kindness as the quality of being friendly, generous, and considerate. For the truest example of kindness, we need not look further than the inspiring life of our Mother Foundress, St Claudine Thevenet.

She watched her brothers perish during the French Revolution. Through such sorrow, she managed to draw the strength from her faith to be kind. She opened up her home to orphans and the needy and then founded a congregation based on love and kindness, which would carry on her work.

The strength she showed is truly inspirational and teaches us the most important lesson: that kindness is a choice which often requires courage and strength. Being kind is often misunderstood as being weak and timid. Rather it takes a human of good morale to be kind and compassionate in today's oft cruel world.

It may seem a mammoth task, but Charles Darwin, father of evolution, gave the theory that we are a profoundly social and caring species. He argued that sympathy and caring for others is instinctual. Science has now shown that devoting resources to others, brings about lasting well-being. Kindness has been found to be the most important predictor of satisfaction and stability in life. It has many benefits including increased happiness and a healthy heart. It slows down the aging process and improves relationships and connections, which indirectly boosts your health. These facts are often pushed to the side by this greedy, success-hungry world. But we must remember the key to happiness lies in kindness and unconditional love.

We are the fundamental cells and the world is one huge organic beings that runs on our energy. The power of changing the world truly rests in us and the way to change the world is to love and be kind. Author and psychotherapist Loch Kelly in Shift into Freedom: The Science and Practice of Open-Hearted Awareness rightfully put this sentiment in the following words: "Unconditional love flows through specific channels of respect, integrity, purpose, meaning, value, responsibility, forgiveness, kindness, and compassion—and these form the foundation of our new, naturally ethical lives."

-Ananya Adhiguru. XII-A

## TOGETHER AS WE ARE - Labour Day 2019

An institution is like a ship with the helpers as its engine who drive the former to its success. Convent of Jesus and Mary, one of the oldest and finest institutions in New Delhi has reached great heights with its helpers' assistance. As has been the tradition over the years, CJM celebrated this year's International Workers' Day with excitement and prodigious joy. The programme sought to appreciate the helpers with a graceful folk dance and speeches in honour of the helpers; a jewel in the crown was when the students surprised the helpers with a round of 'passing the parcel', with Munni aunty pleasing the hearts of many emerging as the victor, just like on usual days. We often forget how people help us unknowingly and though it is instilled in us all yet we forget to value their contribution. The game seemed like a small gesture of kindness and sincerity but for the helpers it bridged a gap and connected them even more to the students, teachers and the institution as a whole. The programme concluded with the ever famous speeches of our helpers, leaving us all feeling like one big family, glued together with the cherished motto of 'to serve with love'.

-Samriddhi Narayan, XI-B

## SCHOOL SPORTS

<b>CHESS-</b>	1. Endurance	<b>CARROM -</b>	1. Endeavour
	2. Endeavour	<small>(SINGLES &amp; DOUBLES)</small>	2. Enterprise
	3. Enterprise		3. Endurance
	4. Encounter		4. Encounter

**THROWBALL -**

1. Enterprise
2. Endeavour
3. Endurance
4. Encounter

## INDIAN PREMIER LEAGUE 2019

**CHAMPIONS-** Mumbai Indians

**ORANGE CAP-** David Warner

(692 runs)

**PURPLE CAP-** Imran Tahir

(26 wickets)





# THE VIRTUE OF DISCIPLINE

How life-changing discipline can be, cannot be stressed enough. It is the key to unlocking the door of potential in order to achieve our ambitions. Through discipline, we discover and define our limits and then question ourselves:

how much further can we go? Does the world of possibilities end here? Or is this where it truly begins? In life, it's the small things that matter. Most of our day is made up of minuscule actions and moments; the big things come infrequently. Because a large percentage of our day is dedicated to these less important tasks, most of our contentment comes from them. Studies show that our willpower is a limited resource and we should perform tough tasks early in the day. Discipline takes care of all the small decisions that unnecessarily exploit our mental energy by creating strong habits, leaving us with a strong will to tackle the bigger tasks.

We all have goals and aspirations and hopefully a plan to go with it. Discipline is nothing but the condensed implementation of taking all the things that really matter to us, that inspire us, that we feel give purpose to our life and structuring our day around these sentiments. This efficient system is not constraining, as per common belief, but freedom. It allows us to consider our wants and needs and gives us full reign over where our life is headed.

Discipline allows us to do everything that excites us and nothing else, and attach meaning to all the tasks we do as every task has a purpose and adds up to the final big picture in our heads. When we commit to being disciplined, we commit to having meaning to everything in life.

A little understood fact is that human biology is such that it sabotages our path to achievement. When we look back thousands of years into the history of our evolution, we see that human beings at that time didn't have to worry about their career after ten years or even 6 months. They only had to worry about survival and subsequently, their next meal. Our brain is wired in a way that it rewards short term fulfilment, as evidenced by the pleasure we feel when we eat four slices of pizza in a row. The low energy levels and regret we feel the next day shows us that humans have evolved into beings that crave long term fulfilment, and therefore long term survival. But our brains haven't understood this yet. Here is where discipline steps in to bypass our sabotaging mental mechanisms.

Discipline isn't a scary dilemma that is going to take away everything you love. It's something that gives you the energy to do what you really, deep down in your heart, want to do. So the next time you feel like scrolling through your Instagram feed, think about that poem that's been flitting in your head. First: write it down. Next step: promise yourself that you're going to spend ten minutes daily to do this thing that brings you joy. A month later you'll end up with five poems that you can look back on, say that you wrote them and feel accomplished.

- Ananya Adhiguru, XII-A

# WORLD ENVIRONMENT DAY

## #BeatAirPollution

It is correctly said that 'the difference between animals and humans is that animals change themselves for the environment, but humans change the environment for themselves'

Since it's first celebration in 1974, the World Environment Day has been celebrated on 5th of June every year with the aim of raising consciousness about the various challenges faced by the environment. It is organised by the United Nations to encourage people to take action and to protect our environment. As is the custom, each year a theme and host country are chosen for the Day. The 2019 World Environment Day was marked by campaigns to fight air pollution around the world, as the UN and governments highlighted that seven million people, including 600,000 children, die annually from causes related to poor air quality. China, which has emerged as a climate leader, with its growing green energy sector and electric vehicles, hosted the event this year.

In a message, UN Secretary-General Antonio Guterres called on governments to tax pollution, end fossil fuel subsidies, and stop building new coal plants. Also, Li Haisheng, Head, National Joint Research Center for Tackling Key Problems in Air Pollution Control, and President, Chinese Research Academy of Environmental Sciences, presented the newly-updated Air Quality Improvement Report 2013-2018, which comprises a review of achievements, measures, challenges, and results in terms of air pollution control. He commented that while there has been significant progress in reducing air pollution, thanks to the efforts of various governmental organisations, business corporations and citizens all across the world, there are still 'tremendous challenges' which need to be addressed.

Elsewhere in the world, people also celebrated this day by taking part in UNEP's 'mask challenge'. In this, people all over the globe took their photo wearing a mask and shared it on social media. India also commemorated this day by launching its comprehensive action plan to clean up air quality in Agra, where the Taj Mahal is located.

The topic for this year's environment day invited us to think about what changes can be made in our daily lives to reduce air pollution and derail global warming. As the UN said, "We can't stop breathing, but we can do something about the quality of our air."



**WORLD  
ENVIRONMENT  
DAY**



**Beat Air  
Pollution**

-Anushka Mittal XI-D



## THE SRI LANKAN SORROW

On 21 April 2019, Easter Sunday, three churches in Sri Lanka and three luxury hotels in the capital city of Colombo were targeted in a series of coordinated terrorist suicide bombings. The attacks were the deadliest on the island nation since the end of The Sri Lankan Civil War 10 years ago. Later that day, there were smaller explosions in Dematagoda and Dehiwala. Nearly all victims were Sri Lankan Christians attending Easter mass. At least 258 people were killed, with 500 others wounded. The authorities have declared that the attacks were carried out by two little-known Muslim organisations, and there were six suicide bombers involved in the explosions. So far, 24 people have been arrested in connection to the attacks.

The government had to impose curfew in the evenings, cancelling all Catholic services in Colombo, and all major social media platforms were turned down in the country. While the attacks caused a terrible setback to the country's economy, people's sentiments were at peak. "Those were the very paths I used to walk on, the very grounds I used to roam around on with my family. We used to come to the church every other day. Now it's nothing but debris all around", shared a source on Twitter.

- Anudeepti Bajpai, XI-A

## CYCLONE FANI'S FURY

Cyclone Fani was the strongest tropical cyclone to have hit Odisha since cyclone Phailin in 2013. Fani was a Category 4 tropical cyclone, with wind speeds of over 200 kilometres per hour at the time of the landfall. This tropical cyclone has caused 43 deaths till now, while the livestock casualty number stands at 21,769,98. Fani, which hit the coastal side of Odisha on May 3, uprooted electricity poles and damaged the supply lines, plunging the villages into darkness. Lack of power supply affected more than 1.5 crore people in the state. Anger was visible on the streets of Puri, with thousands of cyclone-affected people struggling to get food and water a few days after Fani hit.

However, the government is doing its best to provide relief to the affected areas and its assiduous efforts cannot be neglected. The central government has released a Rs 1,000 crore assistance to Fani-affected Odisha. NGOs like the UK-based Khalsa Aid were distributing food to affected people at different locations. In Bhubaneswar, 'Civil Society Responds to Fani', a group of more than 30 civil society organisations, has banded together to help with relief operations and coordinate with the state.

-Anushka Mittal, XI-D

## SCIENCE OF TOMORROW: Gene Editing

CRISPR technology, a tool for editing genomes, is an exciting and upcoming field. Its origin lies in nature. Bacteria and archaea use enzymes that cut up DNA as defense mechanisms against foreign bodies. Scientists transfer these components into complex organisms, allowing for gene editing. CRISPR could end disease and world hunger. It could also destroy humanity. A gene drive is a technology that propagates particular genes in a population of a species and affects the probability of the trait in the progeny. The ecological impact is considerable. An introduced trait could spread to organisms other than the target population.

The gene diversity is also decreased, counterproductive to a species' survival. Germline editing (editing the genes of human embryos and reproductive cells) also raises the issue of unintended consequences which potentially carry on to following generations. Being a new and hence, not thoroughly explored field of science, it poses many safety risks: variable efficacy, off-target effects and imprecise edits. The knowledge of the scientific community is limited in regard to human genetics, gene-environment interactions and connections between one disease and another in the same patient. But can we make genetic changes that affect future generations without their consent? What if gene editing evolves from a cure to an enhancement tool? These improved technologies may provide solutions for genetic diseases, but only when consensus has been met and a regulatory framework has been put in place for treating specific medical implications. With CRISPR technology, we could be looking at cures for Angelman syndrome, autism, genetic blood disorders, even cancer among other currently incurable diseases. Scientists, ethicists and legal experts urge caution but stress that caution does not mean prohibition. They say that germline editing should be heavily focused on genes that cause serious and life-threatening diseases and only when there are no alternative treatments, and that data be studied for multiple generations. The response of agricultural researches contrasts to the rest of the world. Natural gene mutations achieved by crossbreeding lead to a diverse traits in the same species. Now, scientists could accurately manipulate genomes and evade creating useless mutations. This would impact the food industry and potentially eradicate world hunger. Gene editing can also be used as a weapon of mass destruction, (think engineered plagues and viruses), which is why scientists are looking into a countermeasure. As the infant technology becomes more powerful, such measures will be needed. Ultimately, as research in this field continues, the pressure is on governments worldwide to regulate it so as to avoid a unintended biological catastrophe.

-Ananya Adhiguru, XII-A



TODAY I'M AT PEACE  
AND MY MIND WILL NO LONGER  
OVER-ANALYZE  
THE PAST  
OR STRESS ABOUT  
THE UNKNOWN AHEAD.  
I AM PRESENT IN THE MOMENTS  
IN FRONT OF MY EYES

**-Jenne Cecilia**



SOMETIMES I WISH A TORNADO  
WOULD BLOW THE ROOF OFF  
THIS HOUSE OF ANXIETY  
AND CLEAR IT DOWN  
TO THE FOUNDATION.  
WHEN THE CLOUDS CLEAR  
AND THE SUN SHINES, AGAIN  
I CAN REBUILD,  
A STRONGER HOUSE.

**-S.M.Pastore**

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## **PART OF THE JOURNEY IS THE END- A movie review for Avengers: Endgame.**

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As I try to steer spoiler free in this movie review for the film which attempted to bring a satisfying conclusion to the devastating Avengers: Infinity War, I realise that Endgame is not the end of MCU, it completes the circle that began with Iron Man in 2006.

As our very own Captain once said, "Some people move on, but not us... not us," The movie will be more than just that, because our generation has grown up with arc reactors, asgardians, vibranium shields, spaceships, gamma rays and the fact that none of our superheroes wore capes, other than our beloved wizard and maybe someone who won't do 'get help'. After Thanos snapped and wiped out all that we held close, Endgame is the perfect culmination of the twenty two movies we grew up watching. It is hilarious, mournful and all in all, simply brilliant. The end to this Infinity saga will have you cheering through happy tears, arguably one of the funniest, most unpredictable while also being completely heartbreaking in some parts. No matter how much you try, you'll never be ready, and never the same, either because when someone asks me how the film was, I burst into tears for the saddest goodbye I have ever gone through. The actors may not be heroes, but they are undoubtedly super and our very adorable, very loved StanLee can never disappoint. They might not have saved our world, but they've taught us sacrifice, forgiveness, gratitude, ambition and most importantly, friendship. I can be sure that each one of us has loved them three thousand, and the movie just as much, for it is another Marvel miracle.

**-Sagarika Chaudhary, XII-B**



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## **⚠️ COMPETITION ALERT**

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Write a story on the prompt 'Your loved ones have turned into famous historic paintings. What do you do?'. The winning story will be featured in the next edition of 'The CJM Gazette'.

Plagiarized pieces will be disqualified.

Word Limit : 250

Submit your entries via e-mail to - aahanalive1@gmail.com

Pick up your pens and go!





# BREAKING THE WHEEL OF MONOTONY

“You must live in the present, launch yourself on every wave, find your eternity in each moment. Fools stand on their island of opportunities and look toward another land.” -Henry David Thoreau

Even at a young age, we all are held hostage by an unvarying routine in our everyday lives, and it becomes hard to not get frustrated and bored by an existence where each day is the same as the previous one. The same old beginning of each day, followed by the same old tasks, ending with a tiring night. Eventually, it just wears us out and we are left with a sense of stagnation of imagination and a dull spirit.

We are indeed too young, too capable, and too curious to settle for the same bars everyday. We have too many aspirations to simply gawk at our friends' posts on social media. Here, vacations come as one good antidote for this poison of tediousness. They provide us with time to grasp the present and incorporate new experiences; a time to build up new perspectives and refresh your outlook. Travel, meet new people, and learn new things to expand your consciousness. Travelling is a good way to break out of your zone. It is about coming closer to people, to nature, and the beauty that the world beholds and bestows on living beings to enjoy. If you don't feel like going somewhere, just go for a walk outdoors and feel the fresh air on your face. Dedicate time to a hobby, or take up tasks which you left incomplete. Set yourself a new challenge each day and make miniscule changes in your life as they can go a long way to break the dull routine of everyday life.

Get away from the screen. From the moment we wake up to the minute before we sleep, and everything in between, we don't go more than a few minutes without looking at a screen, be it for work or socialization. But taking a break from the digital world is crucial to give your mind a breather. Instead of spending your days sleeping for absurd durations, go for an outing with your family, or call up a close friend. Also, reading provides an escape from reality and rejuvenates our soul. Books are an instant portal to another dimension, which can be accessed from anywhere. This summer, set your goals and explore your potentials, do something out of the ordinary, and most importantly, make your soul happy.

**-Anudeepti Bajpai, XI-A**

## FUNCTIONAL FIXEDNESS-

### Actuarial Science

Unlike the traditional degrees in arts, business, sciences, literature etc., Actuarial Science is relatively a very unfamiliar and modern field. In the simplest of terms, it is the study of risks.

An actuary identifies the possibility of a bad event, or a catastrophe. He evaluates a solution to manage and minimize the possibility of said bad event, or catastrophe, from occurring. He also analyzes the losses that the risk might bring about, and suggests or identifies solutions to reduce its consequence to the economy.

The Starting salary can be in the range of \$100,000 with some consultants making way above \$300,000 for contributing their deep insights, making it one of the most well paid jobs in the world. Also, this is one field where demand exceeds supply. So there is no shortage of jobs available. However, this field requires an excellent grasp of mathematics and is easily one of the most hardest professions out there.

To summarise- if you like making money and absolutely love crunching numbers and statistics, this is the field for you.

**-Anushka Mittal, XI-D**

## LET'S FANDOM IT OUT !

Q1) This famous singer, songwriter and a phenomenal dancer, the pop culture king tried to buy Marvel comics as he aspired to play 'Spider-Man'. Who is he?

Q2) The blood-curdling show by Netflix, 'Chilling Adventures of Sabrina', shares common ground with which other Netflix series?

Q3) This American science fiction seems to be based on a real time travel project. Guess the show.

Q4) The idea for this fictional book series originated from the Greek myth of Theseus and Minotaur. Name the series.

Q5) In the show, 'Wizards of Waverly Place', this actress' character was originally to be named Julia or Brooke O'Malley. Who's the actress?

Q6) Marvel's first hero, who appeared in 1939 was an android that could control fire. Can you name it?

Q7) In Star Wars, Luke's last name was originally something else before it was changed to 'Skywalker'. The former last name is seen in 'The Force Awakens' as the codename for the First Order's Death Star-like weapon. What's the last name?

Q8) This famous singer, songwriter, actor and record producer starred in both hit shows 'The Game Of Thrones' and 'The Simpsons'. Do you know who he is?

Q9) This is one of the longest running shows; One of its character's name literally means 'Angel of Thursday'. Guess the show.

Q10) Footwear news awarded 'Shoe of the year' award to this sensational singer after her collaboration with Puma. Who is she?

ANSWER KEY - 1) Michael Jackson  
2) Riverdale  
3) Stranger Things  
4) The Hunger Games  
5) Selena Gomez  
6) The Human Torch  
7) Starkiller  
8) Ed Sheeran  
9) Supernatural  
10) Rihanna



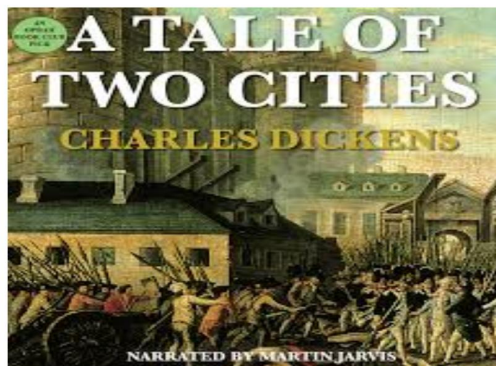
# A TALE OF TWO CITIES by CHARLES DICKENS

## Book Review

"I wish you to know that you have been the last dream of my soul."

I finally had the time to read the classic, A Tale of Two Cities by Charles Dickens and it was every bit worth the wait.

Set in Paris and London of the 1780s and 1790s, this masterpiece narrates the fascinating romantic relationship between two unusual characters, Lucy Manette and Charles Darnay, against the turmoil of the French Revolution while analysing the conflict between democratic and aristocratic principles. Though it is one the author's most intimate and finest novel, A Tale of Two Cities is different from his usual work as it has fewer humorous, colourful characters than others and the plot is more powerful. Beautifully written, it captures the struggle and turmoil one endures in order to retain one's composure as political and personal unrest intermingle. This fine book invoked emotions of love, hate, pity, anger and despair in me, all at once, leaving me spellbound. A Tale Of Two Cities can be hands-down declared as one of the greatest pieces of literature and a gem to anyone's book collection.



-Aahana Sehrawat, XII-A

# EARTH DAY QUIZ

Recognise the endangered species with help of the image and clues about their endangerment.

1. One of the reasons for the endangerment of these species is real-estate development, which has reduced the number of natural warm springs, or entrance to them, which helps these marine animals stay warm.



2. The factor responsible for the endangerment of this species is habitat loss. The demise of the population often begins with building a road through the forest. A new road brings in entrepreneurs and settlers keen to exploit the tropical forest and clear land. Loggers, farmers, poachers and pet dealers all play a role in their decline.



3. Ruthless human actions, such as deforestation, poaching, accidental trapping and an illegal pet trade have caused the wild population of this animal to shrink to just around 10,000 individuals.



4. These animals and their eggs are killed by people throughout the world for food, and for products including oil, leather and shell. Their endangerment is also caused by pollution. Plastics, discarded fishing gear, petroleum by-products, and other debris harm and kill them through ingestion and entanglement.



5. This subspecies is currently threatened by shrinking prey tracts and the illegal wildlife trade. Due to logging and poaching of their prey species, such as roe deer and sika deer, their food source is dwindling. Their fur is also a coveted resource, fetching up to \$1,000 per pelt.



ANSWER KEY ON THE NEXT PAGE



## ANSWER KEY TO EARTH DAY QUIZ

- 1) The Manatee
- 2) The Orangutan
- 3) The Red Panda
- 4) The Green Turtle
- 5) The Amur Leopard

Some ways in which we can help the protection of endangered species are by learning more about them and contributing to organisations devoted to their protection. Other ways are to recycle and buy sustainable products, not purchase goods made out of threatened or endangered species, and by employing methods that help protect and preserve the habitats of endangered species.

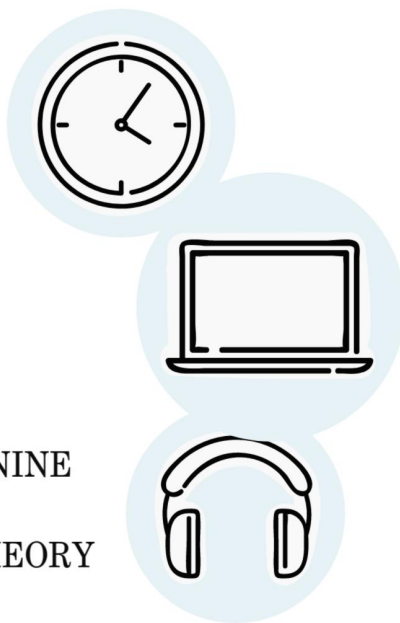
## NETFLIX AWAY!

### MOVIES

- ☐ THE SISTERHOOD OF TRAVELLING PANTS
- ☐ THE PARENT TRAP
- ☐ BEFORE SUNRISE
- ☐ EIGHTH GRADE
- ☐ SLENDER MAN
- ☐ NOW AND THEN
- ☐ MONTE CARLO
- ☐ ME BEFORE YOU
- ☐ NERVE
- ☐ 13 GOING ON 30

### SITCOMS

- ☐ THE MIDDLE
- ☐ BROOKLYN NINE-NINE
- ☐ NEW GIRL
- ☐ THE BIG BANG THEORY
- ☐ YOUNG SHELDON
- ☐ AMERICAN HOUSEWIFE



## A PLAYLIST TO GET YOU THROUGH YOUR EXAMS



- 1) High Hopes-Panic!at the disco
- 2) In My Blood-Shawn Mendes
- 3) On My Way-Alan Walker
- 4) Warriors-Imagine Dragon
- 5) Me, Myself and I-Geazy
- 6) Believer-Imagine Dragons
- 7) Thunder-Imagine Dragons
- 8) Gale Song- The Lumineers
- 9) You Should See Me in a Crown-Billie Eilish
- 10) Nina Cried Power-Hozier
- 11) I Lived-One Republic
- 12) Breathin-Ariana Grande
- 13) We Are The Champions-Queen
- 14) Counting Stars-One Republic
- 15) 7 Days-Alessia Cara
- 16) The Climb- Miley Cyrus
- 17) Castle-Halsey
- 18) Anxiety-Julia Michaels
- 19) Long Live-Taylor Swift
- 20) Masterpiece-Jessie J



## READING LIST



1. Eleanor and Park- Rainbow Rowell
2. The Picture of Dorian Gray- Oscar Wilde
3. To Kill a Mockingbird- Harper Lee
4. The Raven Cycle Series- Maggie Stiefvater
5. To All the Boys I've Loved Before- Jenny Han
6. The Perks of Being a Wallflower- Stephen Chbosky
7. Wuthering Heights- Emily Brontë
8. The Kite Runner- Khaled Hosseini
9. The Great Indian Novel- Shashi Tharoor
10. All the Bright Places- Jennifer Niven
11. The Hunger Games series- Suzanne Collins
12. Those Pricey Thakur Girls- Anuja Chauhan
13. The Fountainhead- Ayn Rand
14. The Discovery of India- Jawaharlal Nehru
15. Pride and Prejudice- Jane Austen



# ARTIFICIAL INTELLIGENCE IN PSYCHOLOGICAL DIAGNOSIS

If you have come to be familiar with psychologists like Freud and Jung, you will find that psychology till today has one drawback, the simple fact that it cannot accurately explain the nature of the psyche and there can be a lack of precision. However, with the coming of artificial intelligence, these problems have become more acute. Artificial intelligence (AI), refers to the ability of computers to perform human-like feats of cognition including learning, problem-solving, perception, decision-making, and speech and language. It uses mathematical tools to search for consistent patterns inherent in clinical data promises advantages over conventional diagnostic approaches. Essentially, the AI helps psychiatrists and other mental health professionals by collecting and analysing data more efficiently than humans and by suggesting effective ways to treat patients.

Artificial intelligence, it is said, will also drastically alter the pricing in psychology. Today, almost \$201 billion dollars are spent on mental health and the growing technology will help give assistance to those who need it at an affordable price.

Ellie is a start up with an AI robot which helps cure PTSD.

Ellie's actions, motions, and speech mimic those of a real therapist. It can carefully examine facial expressions, hand movements as well as eye movements and has been very helpful in curing war veterans. AI can also help detect depression and anxiety in small children. Recently University of Vermont researchers and their colleagues announced the creation of an artificial intelligence (AI) screening tool that can detect both anxiety and depression in children from their voices with a high level of accuracy. Children with these disorders have a hard time communicating their symptoms which makes it difficult for healthcare professionals to accurately diagnose and treat them and so, it's valuable to have a tool that can objectively screen the children and help prevent future problems that could lead to substance abuse or even, suicide. Other such enterprises are: Karim, an Arabic speaking platform to help Syrian refugees, and Emma, a Dutch-language virtual psychologist created to help people with mild anxiety and fear. The use of AI in psychiatric diagnosis definitely has limitations and ethical implications that need to be considered. However, if it is used correctly, it can revolutionise modern healthcare and bring about changes that would benefit healthcare providers and patients.

-Sagarika Chaudhary and Saumya Sachdeva, XII-B

# THE LOOMING DOOMSDAY

Climate change, the unnecessarily debated and absolutely essentially deliberated issue, is more substantial than any other environmental issue that humanity has faced in all its long history. Every second 7.7 billion humans contribute to the deterioration of the planet. The enormity of the harm caused by humans and the subsequent consequences are not comprehended by the general populace, mainly owed to the fact that the effects are only noticeable over a long period of time.

The carbon dioxide levels in the atmosphere have reached 415 ppm, 250-350 ppm being the normal range. The last time the concentration was this high was during the Pliocene Epoch, 5.3 to 2.6 million years ago. It is estimated that around 2.5 million tonnes (ninety times the weight of the Statue of Liberty) of plastic are entering the ocean each year, exacerbating the worsening of aquatic ecosystems.

Many infectious diseases, including water-borne ones, are highly sensitive to climate conditions. It lengthens the transmission season and expands the geographical range of many diseases. Malnutrition and undernutrition will be a concern for a number of developing countries as climate change will impact food security, particularly in relation to floods and drought.

Heatwaves and droughts will be a huge feature. Hurricane-associated storm intensity and rainfall rates are projected to increase as the climate continues to warm. The Arctic Ocean is expected to become ice free before mid-century. Not only will this lead to the decline of terrestrial and marine ecosystems, but major flora and fauna displacements will also be seen. Climate refugees will be a term humans will get accustomed to.

If this continues then humans will lead their own kind to ruination. We are already too late to completely reverse the effects of such devastating phenomenon. The Earth cannot be remade, just restored.



-Ananya Adhiguru, XII-A and Samriddhi Narayan, XI-B



## "Journalism is what we need to make democracy work." -Walter Cronkite

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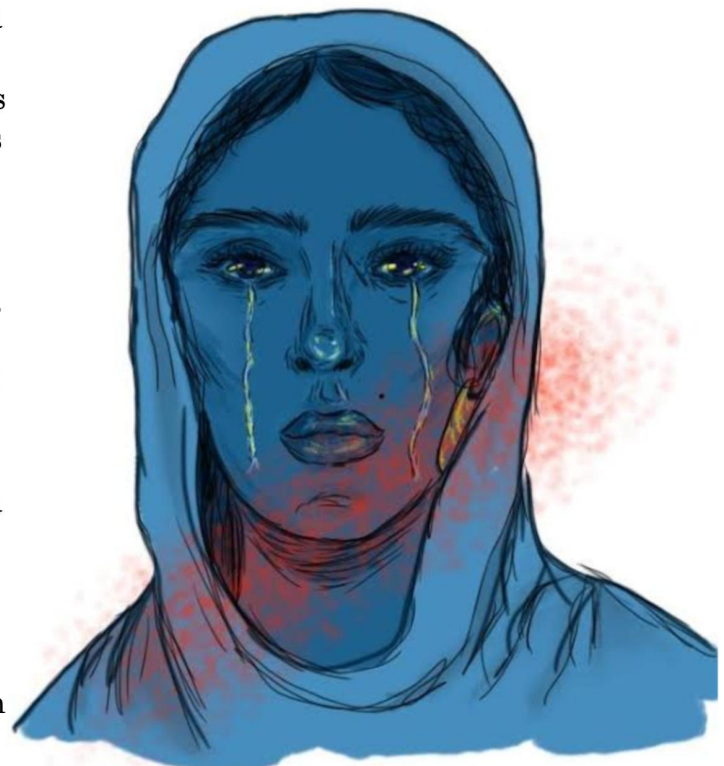
To understand the importance of journalism, we first need to understand what journalism is. Journalism is a form of writing where information regarding various events happening around the world is painstakingly collected, assessed, interpreted, compiled and edited before it is presented to the public. Nowadays, the words 'fake news' and 'presstitute' have become synonyms with 'press'. While trust in political and corporate leaders has always been fluctuating all around the world, reports show that trust in the press has been declining steadily since the twentieth century. Granted, there might be more than a grain of truth in these postulations, but what we forget is that at the same time, there are also journalists who are working tirelessly to give voice to rape victims, exposing human traffickers and following trails of black money. These non-glitzy journalists are often not given the recognition they deserve.

Take the example of the journalists in Sudan right now. Indiscriminate shooting by security forces during the protests have brought the death toll of journalists to 70, according to Sudanese Professionals' Association, the main anti-government protest organizer. In February, Osman Mirghani, editor in chief of Al-Tayar, an independent newspaper, was picked up by security services after criticizing Bashir in an interview on Sky News Arabia. He was released after being held in an undisclosed location for nearly a month.

Media has the power to influence people, to shape their thoughts and ideas and to make them question all existing institutions and systems of society. As is rightly said, media also 'gives a voice to the voiceless'. The Times of India recently started an applaud-worthy campaign, 'Times Out & Proud', which provides a platform for the LGBTQIA+ community to voice their stories. Taking another example of the #MeToo movement, we can see how media became a key tool in helping fight gender injustice in all its forms, in the 21st century. Social media helped in developing women's capacity to speak about violence and hundreds shared their experiences on various platforms like Twitter, Reddit etc.

Taking another example of the #MeToo movement, we can see how media became a key tool in helping fight gender injustice in all its forms, in the 21st century. Social media helped in developing women's capacity to speak about violence and hundreds shared their experiences on various platforms like Twitter, Reddit etc. At the same time, news and the power of print can also be used to misguide and influence public opinion in such a way that the difference between fake and real news, what is good for the society and bad becomes indistinguishable. Going back in history, we can see how powerful tyrants like Napoleon or Hitler controlled the press to cleverly manipulate the people and justify and propagate their rule. Even today, many news channels are clearly either leftist or rightist and publish stories and articles to glorify the parties they support and discredit the opposing party.

All in all, however, we can say that the good work of journalism far outweighs the inadequacies. Putting restrictions or criticising its importance and freedom is like criticising the need to breathe or eat. As John Milton aptly said, "Give me the liberty to know, to utter, and to argue freely according to conscience, above all liberties."





## THE FESTIVAL OF DEMOCRACY

The Indian General Election is truly the biggest event the country witnesses and rightfully so, after all elections are the basic pillars of democracy and India is the world's largest democracy. They derive their validity from the people and the people, more often than not, derive their identity from them and that is the reason why they are so important.

They have the power to unite people in a way that nothing else can and at the same time highlight the depth of our differences and diversities. The result of these elections affects everyone regardless of their degree of direct involvement and everyone most definitely has an opinion on them. From the people who always complain about the country but never vote to the poorest in society who place their unwavering faith in their representatives and in their right to vote, from structured debates in news studios to heated discussions over dinner, every single citizen is part of this monumental affair in a variety of ways.

The question now arises is what really goes down during this 'festival of democracy'?

Though the Indian system is a multi-party one, the fight always boils down to the two main players- the BJP and the Congress, the two major national parties that have been around for a long time. The BJP identifies as a 'right-wing' party with a focus on the ideology of "integral humanism". It advocates social conservatism and a foreign policy centered on nationalist principles. For this election, some of the focal points in the BJP's manifesto or, as they're calling it, the 'Sankalp Patra' are the Citizenship Amendment Bill, Article 35A and creating employment for the youth. According to most, the performance of the BJP in the past five years has had its share of disappointments-demonetization, unfulfilled promises in terms of employment and growing religious extremism. So it'll be really interesting to see how this opinion influences the outcome of this election.

The Indian National Congress is a 'centre-left', secular party modeled on the Gandhian principle of 'sarvodaya'. Their focus for this election is on employment, taxation and electoral reforms. The Congress' strategies for this election has brought the heat and made things very interesting. Like the reintroduction of Priyanka Gandhi to the political world and pushing for a coalition secure a majority against the BJP.

The stakes keep getting higher and higher with each election but this time, they seem higher than ever. It is believed that the outcome of these elections can completely change the political course of the country for the coming decades and so, the pressure is on for both candidates and voters as they hold the fate of the country in their hands. All we can do is watch from the sidelines and await the results with baited breaths and be grateful to be part of this historical event



-Saumya Sachdeva, XII-B

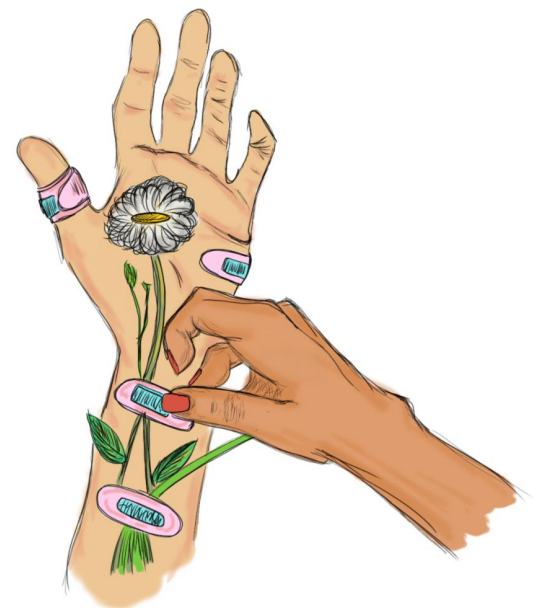
## A LETTER TO THE VIRAL AUNTY

Dear aunty,

I remember having a chemistry exam the next day when a notification popped up on my phone. It read "Watch this video ASAP- Rebel women deserve to be raped." I knew I had to watch it immediately. After watching the video, somehow, my will to study halo-alkanes and conversions had vanished and I was left flabbergasted. "Women who wear short dresses want male attention and deserve to be raped." Your words were the only thing I could think about; they made my heart ache with pain and anger. I was in my own bedroom yet I clearly remember a fearful shiver running down my spine. I felt unsafe in my own home. Could it really be that all this time we thought the problem was a man's mentality but really it was what they were taught by their mothers? Is society stuck in a vicious cycle of passing on absurd teachings to younger generations? Do I blame you? NO. I'm sure long ago the little girl in you wanted to wear floral dresses and dance around flaunting the pretty pattern. But, you were taught to cover up so that not even an inch of skin was visible. You were taught about the lustful eyes of men that you were surrounded by and how an 'unethical and characterless woman' was bound to attract sexual attention that she did not want. So you did what society teaches us best, believe everything it says as gospel.

Your beliefs are representative of the toxic and regressive mentality which promotes victim blaming and shaming under the garb of protecting women. You represent our society at large, a society that believes that women should not step out at night, should avoid "provocative" clothing, intoxicants and male friends. The mentality that my clothes or the number of guy friends I have decides whether I get raped or not runs too deep among the people of our country. We are tired of getting blamed for the trauma we experience due to a human being who could not control their lust. We are tired of absurd beliefs, cruel remarks and senseless taunts. We are tired of feeling unsafe and carefully calculating each step we take in order to avoid the preying eyes that follow us around constantly. Stop promoting rape culture. If women themselves condone such behaviour, will the men not feel the wrongful sense of entitlement to our bodies? If we as women cannot stand up for each other, how do we expect the men around us to do the same?

-Aahana Schrawat, XII-A



*Mental Health Awareness Month*



# THE SPIRITUAL SIGNIFICANCE OF THE MOON

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*Waxing  
Quarter:  
i take  
discerning  
action to  
support  
my  
intention.*

*Full Moon:  
i move  
ahead with  
my intention  
now or  
accept that  
it wasn't  
best for me  
at that time.*

*Waning  
Quarter:  
i feel  
grateful  
that my  
intention is  
coming into  
form in the  
perfect way.*

*Waxing  
Crescent:  
i relax  
into my  
intention,  
i breathe.*

*Waxing  
Gibbous:  
i trust that  
the perfect  
intention is  
coming into  
form at the  
perfect  
time.*

*Waning  
Gibbous:  
now that i  
am receiving  
my intention,  
i give back  
with a piece  
of abundance.*

*Waning  
Crescent:  
i reflect  
with  
thanks,  
i rest,  
i restore.*

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## THE NEW FACE OF COSMOLOGY

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“The universe doesn’t give you what you ask for with your thoughts - it gives you what you demand with your actions.” ✎ Steve Maraboli

Nowadays there are many models of cosmology trying to describe the mechanism of our universe as a whole. The most famous and popular model is the Big Bang cosmology, which is taken as the standard model. According to the Big Bang Theory, the universe was created through a gigantic explosion 14 billion years ago, and inflated to the cosmos we know today.

However, with the advanced developments in science and technology, many scientists have developed new models and theories to oppose the Big Bang Theory. The Quasi Steady State Cosmology poses as a strong competitor. It suggests that matter needs to be created continuously for the expansion of the universe. But in the standard model of the Big Bang Theory, we have no reason for the creation of matter due to the explosion that took place. Another theory presented is the Fractal Theory of the Universe, which suggests that the distribution of matter in the universe, or the structure of the universe itself, is a fractal across a wide range of scales. Our universe was known to have shown many properties similar to that of the fractals, thus interesting our physicists. It led to the birth of a new theory, and was presented as an alternative for the Big Bang Theory.

Plasma Cosmology was another theory presented by the physicists. Unlike the Big Bang Theory, which postulates a beginning for our universe, in plasma cosmology, there is no beginning and the universe is eternal. It suggests that plasma, with its electric and magnetic forces, has done more to organize matter in the universe into star systems and other large observed structures than has the force of gravity.

These theories, though little-known, pave the way for a wider perspective of the universe and its evolution over the years. These different and unique approaches can form the base for another new discovery, because we have not yet explored much of our mysterious cosmos.

-Anudeepti Bajpai, XI-A



## PEARL ACADEMY WORKSHOP

On 8th May, 30 students from class 12 visited branches of Pearl Academy in Naraina Vihar and Rajouri Garden for a workshop. The students were first taken to the Pearl Academy School of Media in Naraina Vihar where they were given an orientation and then, taken on a tour of the campus and were shown a fully functioning media room.

This gave them an opportunity to observe understand education in media. The students were then taken to the School of Fashion and Design in Rajouri Garden. There, they were shown the design labs and also given the opportunity to look at projects made by the graduating students from the fields of Luxury Brand Management, Fashion Design, Communication Design and so on. By looking at the projects, the students were able to gain insight into education in fashion and design and what a career in these fields would look like. Overall, the workshop was a wonderful and enriching experience that the students enjoyed thoroughly.

-Saumya Sachdeva, XII-B

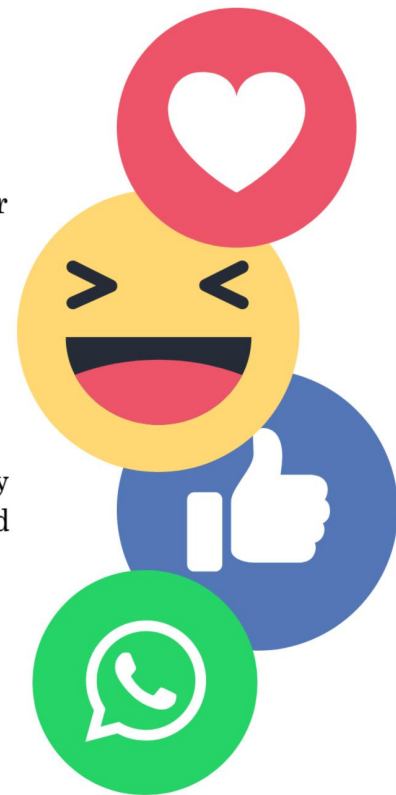
## PTM WITH THE PRINCIPAL -XII

The PTM with the Principal was held on the 29th of April for the parents as well as the students of class XII. It was an enriching experience which counselled the students over the various universities they can apply to as well as the wide ranging career options they can choose from. Guest speakers Mr. Jitin Chawla and Mrs. Aruna Broota were present who provided great insight to the students about their future.

-Sagarika Chaudhary

## ARE EMOJIS DESTROYING OUR LANGUAGE SKILLS?

Emojis present a language of pictures that is universally understood, and hence, widely used for communication in the present era. But a study by Google has revealed that emojis may present a fun form of communication, but they are destroying the English language. Emojis and emoticons allow us to communicate our sentiments, thoughts and feelings with ease. From a cute animal to sports equipments; from food items to popular symbols, these emojis can illustrate almost anything. They have managed to overcome the language barriers, spelling errors and the ambiguity of speech. While the use of emojis has made interaction easier, it has a tendency to weaken our command over grammar and spelling. No more looking for the correct word to express our reaction when all we have to do is send a small pictograph. As a consequence, most of us find ourselves not switching off the 'autocorrect mode', so as to avoid a spelling error while sending a text to others. Associating an emoji with a statement can also mean differently to both the sender and the receiver. Instead of typing out what they feel (which many find a bore), people, especially youngsters, keep searching for an emoji which truly describes their feelings. But the gravity of their emotions lessen, because emojis cannot do justice to the intensity of words. As we increasingly communicate through our phones and computers, it is only natural that our language will evolve. But digital communication should not be taken as an excuse to take the easy way out. Emojis can reduce the need to develop the writing skills needed to express one's self in absence of shorthand forms of communication, and it is in our hands to avoid this situation.



-Anudeepti Bajpai, XI-A



# WEAR A WORK OF ART- Met Gala 2019

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Fashion is a true celebration of self and it allows us to represent who we are in a direct and visual manner. The Met Gala is the celebration of this celebration of self. It began in 1948 as a way to raise money for the newly-founded Costume Institute of the Metropolitan Museum of Art in New York. It serves as the grand opening of the annual fashion exhibit at the institute. The guests, which include famous faces from the world of fashion, film, music, and art, are expected to adhere to the exhibit's theme in what they wear. Each year the themes are more magnificent and creatively-challenging than the last and this year was no different with the theme 'Camp: Notes on Fashion'. This year's theme is drawn from Susan Sontag's 1964 essay, "Notes on Camp". In her essay, Sontag states that camp is the "love of the unnatural: of artifice and exaggeration...style at the expense of content...the triumph of the epicene style". The origins of 'Camp' can be traced back to the French court under Louis XIV. The King consolidated his power by compelling the French nobility to abandon their country strongholds and to gather at Versailles, where everything was pose and performance. The idea of camp was also carried by Oscar Wilde, who built his career on camp posturing. His epigrams—"One should either be a work of art, or wear a work of art"—are the essence of camp. Camp has also been integral in the lives of queer and transgender people as a way to express themselves. Its essence lies in being unapologetically bold and this essence was kept alive by celebrities like, Lady Gaga, Harry Styles, Ezra Miller, Zendaya, Billy Porter, Jared Leto in their outrageous and over-the-top looks.

-Saumya Sachdeva, XII-B



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## TEARS

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The words left unsaid between them were etched in the stars of the moonless sky, and so she stopped searching his eyes for answers, letting the hint of woe settle on her mind as the heavy weight lifted from his chest. Her dupatta fluttered, and she took one more glance. She wasn't used to living without him, and she knew those feelings were reciprocated. As she started walking back, the familiarity of his voice struck her as he called out her name and she turned. "I love you," he said, the same way he had all these years and she just smiled in response, knowing words will exacerbate her emotions and her voice would betray her. She wasn't going to let him see her tears, her walls remained. It was about time they parted ways. It was all for the best. And so she woke up the next day and adorned herself in red, hoping the kohl under her eyes would underline things she didn't say, and the henna on her hands would welcome the new life that awaited her with wide arms. Her smile didn't waver, not even once and the excitement in the air made her giddier as the night drew closer. But she consciously avoided his gaze, letting the deliriousness in the air envelope her to stop her from feelings morose about the three words she hadn't said to him in a very long time. Her resolve strengthened. She wasn't going to cry, or more so, let him see her tears. Because he wasn't going to, either. As everyone told her how she made the most beautiful bride, the red of her clothes mirrored the red on her cheeks, a consequence of the bittersweet emotions coursing through her. She was happy, and she kept reminding herself that, lowering her lashes and smiling shyly. It began, ceremony after ceremony, permanently making themselves home in her memory. The seventh phera. Orbiting around the glistening flames, she sneaked a glance at him. Beneath his splendid smile, she knew exactly what Baba was concealing. That day when she walked out, he called out, again, the familiar way, "I love you," She let him see her tears then, as did he. They wept. Some vows outlasted others, and this was an exception she was willing to make. And through her tears, she hugged him and said, for the first time in forever, "I love you, papa,"

-Sagarika Chaudhary, XII-B



# ARROW OF TIME

## IS IT TRUE?

Most scientists believe that Time has only one direction, the past lies behind us and is fixed, accessible only by memory or written documentation; the future, on the other hand, lies ahead and is uncertain. Most of the events which have happened are irreversible. Using the second law of thermodynamics and the laws of probability (which are purely mathematical and therefore beyond dispute), physicists say that the only way entropy will decrease is if time runs backwards. This theory also leads to the notion that travelling back in time is impossible. Kip Thorne, one of the most renowned theoretical physicists, further disproves travelling back in time using the 'Grandfather Paradox'. This essentially means that if someone travels back in time and kills her grandfather before her father was conceived - she would, in a way, be preventing her own birth. Which then raises the question that, if not born, then how did she kill her grandfather in the first place?

## WHAT IS IT?

The arrow of time, or time's arrow is the concept positing the "one-way direction" or "asymmetry" of time. It was developed in 1927 by British astronomer Arthur Eddington. In layman's terms, the theory states that time in the universe always runs forward and never backwards. The theory is supported by the second law of thermodynamics which states that the entropy\* of a system increases with time. For example- it is easy for us to break an egg, and hard, if not impossible, to unbreak an already broken egg.

\*Entropy-It usually refers to the idea that everything in the universe eventually moves from order to disorder, and entropy is the measurement of that change.

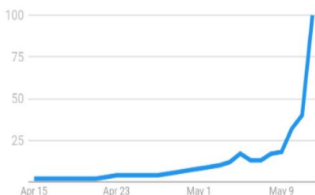
\*Qubits(Quantum Bits)-The basic unit of information in a quantum computer.

-Anushka Mittal, XI-D

## IS IT POSSIBLE THAT THE ARROW MIGHT NOT BE POINTING IN JUST ONE DIRECTION?

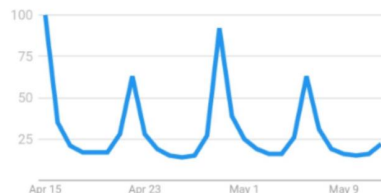
Recently, a group of scientists from the Moscow Institute of Physics teamed up with colleagues from the U.S. and Switzerland to prove 'arrow of time' wrong. They tried to achieve this by undoing the 'wave function'. Undoing the spreading of the wave function is like trying to put spilled milk back in the bottle, but that's exactly what the researchers accomplished in this new experiment. The researchers used a quantum computer (one made out of qubits\*) to simulate a single particle; its wave function spreading out over time like a ripple in a pond. Then, they wrote an algorithm that reversed the time evolution of every single component of the wave function. Essentially pulling that ripple back into the particle that created it. They accomplished this feat without increasing entropy, seemingly defying the arrow of time. Now the reversal of the qubits is so interesting because these qubits are known to only move forward with the passing of time. There is no denying how important this achievement is in theory. Scientists believe that though they may not be close to sending people back in time, but they appear to have finally embarked on a journey to achieve this.

# SNAPSHOTS



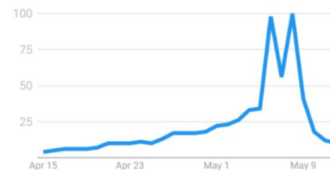
### Mother's Day

A celebration honouring the mother of the family, as well as motherhood, maternal bonds, and the influence of mothers in society, this year's theme was #BalanceforBetter, focusing on maintaining the gender balance for a better world



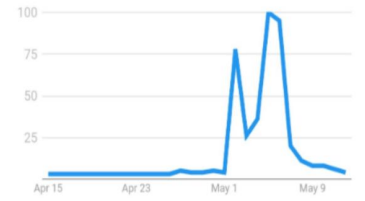
### Game of Thrones

With a book following of more than 2 decades and a TV show following spanning a decade, fans are eagerly watching the eighth and final season of the show



### Archie Harrison Mounbatten-Windsor

The newborn son of Meghan Markle and Prince Harry is the first interracial baby in British Royal History



### Central Board of Secondary Education

The CBSE board results showed that more than 1 lakh class XII students and 2.25 lakh class X students scored more than 90%.

Send in your articles, poems, stories and competition entries to >@aahanalive1@gmail.com

Selected pieces will be featured in the next issue.

Theme of The Poem Fleet for next issue- Perception

We look forward to reading them!

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