DIGITAL VOLUME II, 2019-2020

QUANTUM

THE OFFICIAL NEWSLETTER OF DEPARTMENT OF MATHEMATICS, LSR

QUANTUM ED-BOARD

2019-2020



Rajlaxmi Adwant



Nayana Nair



Mihika Chitranshi



Sanya Juneja



ENIGMA 2020 DEPARTMENT EVENTS ARTICLES ART ATTACK

Editors' note

Dear readers,

Tough times, given the pandemic, but no worries! You don't need to come to college to hear what's been happening in the Department of Mathematics, LSR, this semester! We're here with the Second Digital Edition of Quantum, and we hope we have captured the essence of this semester. Do let us know how we can be better! More power to all of us. Stay safe, take care and happy reading!

THEME AND ORGANISING COMMITTEE

This year, the Annual Academic meet of Department of Mathematics, Enigma 2020, had the theme of 'Being Environmentally Rational'. Steps taken by the department in its effort to uphold the theme include reusing plastic poly bags to make decorative flowers, reusing waste cardboard to make the Enigma logo, reusing paper cups, aluminium foil, dupattas and one sided used sheets which were collected during a 2 month long collection drive. 75% paperwork for the event was done by using newspapers and old sacks were used for making leaves for decorating. Envelopes were made from newspapers and questionnaires were printed on one sided used sheets. Plastic paper of posters were reused and laptops were used at the registration desk instead of sheets to reduce wastage. Mics and other sound appliances were not used in classrooms to conserve electricity.

This year's Organising Committee did a wonderful job to make Enigma a worthwhile experience for everyone. The planning and execution was exemplary and all the events went smoothly. Everyone was particularly pleased with the amazing work of the Decor committee. The pleasing variety of events ensured that there was something for everyone.



PRE EVENTS

The prequel to ENIGMA 2020

The Department of Mathematics began its extraordinary path to its Annual Academic Meet, Enigma 2020 with a series of preevents to create a buzz around the campus and to demonstrate that mathematics can be fun too. Call these pre-events a trailer to the actual two days, or see them as standalone events, they were all things frolic, bewildering and tempting. These pre-events left the student body eagerly waiting for the actual events.

Battle of Wits, pre-event to Battle Royale, was held on 16th January, 2020. It marked the beginning of our very anticipated Enigma. The name of the event in itself is self-explanatory as the game was indeed a battle of wits. The participant's legs were tied to each other turning them into a three-legged creature for two exciting rounds. In the first round they had to answer a question related to PUBG, the inspiration for the event, Battle Royale, to reach the second round. In the second round, a twist was waiting for the participants. They had to solve a mathematics question and then burst a balloon that was placed on the ground. But there was a catch, they had to do so without using their arms or feet. Once done with this, the team had to run to the finish line to win the game. The event saw 7 teams battling it out. We had our winning teams Charulata and Janvi from the Department of Statistics and Prisha Jain and Royina Chhabra from the Department of English.

Next, Coffee with Cauchy was back with its second season comprising endless thrill, rapid fire rounds and Mathematical musings, grappling the audience with excitement on 20th January, 2020. Interesting facts came to life about celebrities, LSR and the entertainment industry with numerical revelations. Coffee with Cauchy boosted the enthusiasm surrounding the highly creative event Mathscape. In the pre-event, two teams participated. At the end of 15 mind boggling questions, Team B was declared as the winner with 15 points and Team A, lost by a mere 4.5 points. The inspirational story of four women who played the pivotal role in Mars Mission, movies like 'The Man Who Knew Infinity', television show titles which include numbers and many such interesting details were asked of the teams, forcing them to strain their memories. It turned out to be quite a catchy show after all.

Treasure Hunt, the pre-event for Sherlocked was organised on 21st January 2020. The participants were expected to find the clues in a sequential order. There were 5 teams which participated in this event. The participants were given clues for the next location in the form of mathematical word problems. The participants were extremely enthusiastic and ran from one location to the next one. There were two winning teams in the end, one from the Department of Psychology comprising Tarini and Jaya and the other from the Department of Statistics, comprising Lovkya, Arijita and Deepika. The winners were given chocolates and a treasure saying 'You', because we are the greatest treasure to ourselves, and direct entry to the main event.

The following day, wizards, witches, Muggles and fantastic beasts gathered to take part in the enchanting Forbidden Game, the pre-event to Harry Potter: Wizards Unite. The event heads, offline publicity team heads along with the enthusiastic participants made sure that the magic kept brewing. Potter-heads queued to get their tickets to step inside a world where magic is real! As the Forbidden Game began teams tried to guess popular words and phrases from the wizarding world of Harry Potter without using the forbidden words. With words and phrases like The Triwizard Tournament, James Potter, Mirror of Erised, and many more to be guessed under a minute and a half, participants had to really wrack their brains and use their full knowledge of the Potter-world. At the end, it was clear that Yashica and Swarnim had aced the game with their magical prowess by giving 9 correct answers. They got a direct entry in Round 2 of Harry Potter: Wizards Unite along with a prize.

The Department of Mathematics marked the end of its pre-event week on 23rd January 2020 with a Tattoo and Photo Booth. As the clock struck 13:00, students rushed out of their classes for their daily dose of Nescafe coffee, where the tattoo and photo booth was set up. The booth was full of hustle bustle with students wanting different types of tattoos, some on their wrists, some on their fingers and some even on their faces. All of it was only made possible by our very talented artists Aastha, Priyana and Jassika who made sure that all the students go back not just with a tattoo but with a smile. Once done with the tattoo people made sure to strike a pose with their tattoos in front of the photo booth along with the very interesting props. There were also fortune messages which told the students what was going to happen in their bright future. While some got to know that they will enjoy shining success, some were promised a pizza party soon.

The pre-events left everyone waiting for Enigma with bated breath. The excitement heightened, minds functioning at full capacity and expectations on cloud nine, the Department of Mathematics is moving ahead at full speed.

Reported By: Battle of Wits: Sumaiya and Aastha Coffee with Cauchy: Shubhi and Abhiruchi Treasure Hunt: Chhavi and Keerat Forbidden Game: Sanya and Aseema Tattoo and Photo Booth: Sumaiya and Abhiruchi

KEYNOTE ADDRESS

-Sanya Juneja and Sumaiya Ahmed (first year)

The Keynote Address, organized by the department on 25th January 2020 was a joint effort of Tanvi Vohra, Diya Bansal, and Aseema Choudhary, under the guidance of Dr. Monika Singh. The event began with a speech from the President, Saumya Singh who gave an insight into the theme for Enigma-Being Environmentally Rational and the efforts of the department in upholding the same and emerging as environmentally conscious students through this process.

Dr. Monika Singh introduced and welcomed the chief guest, Dr. Mayank Dwivedi, Director of Industry Interface and Technology Management at DRDO, and Dr. Asha Mathur, a retired faculty member from the Department of Mathematics, LSR. Following this, Dr. Mayank Dwivedi shared his experience and expertise with the students. He has worked in the area of stealth and radar absorbing systems and on major projects such as Agni missile, Brahmos missile, warhead technologies, and biomechanical devices. He is an expert in the areas of processing and structureproperty relationship of advanced composites and is recipient of the 'Agni Award for Excellence in Self Reliance' in 2018 and 'Lab Scientist of the Year' award in DRDO in 2003.

He elucidated on the historical aspects of Mathematics, Vedic Mathematics, and many more. He ended the keynote emphasizing on the importance of teamwork in running organizations. This was followed by a Question & Answer session. He emphasized the role of women in organizations such as DRDO and said, "Science doesn't differentiate between a man and a woman". Dr. Dwivedi ended the session on the importance of Mathematics in artificial intelligence and machine learning which could shape the future. The Department of Mathematics offered Dr. Mayank Dwivedi a momento and a 'Thank You' card as a token of gratitude.



ENIGMA 2020

PANEL DISCUSSION

-Shubhi Arora and Chhavi Narang (first year)

The Panel Discussion marked the onset of Enigma 2020 and gathered an impressive turnout with students from Economics and English department as well. The topic for the discussion was "The Role of Mathematics in Sustainable Development of Economics". The event was brilliantly managed by Tanvi Vohra, Diya Bansal and Aseema Choudhary. The event began with Dr. Monika Singh, The Teacher-In-Charge of Department of Mathematics introducing Dr. Aparna Sawhney, specialist of Economics, professor at Jawaharlal Nehru University, Dr. Soumya Datta, specialist in macroeconomics theory and complex systems and assistant professor at South Asian University and Dr. Seema Singh, specialist in economics, professor of Humanities, Delhi Technical University and inviting them to speak on the topic and elaborate on it pertaining to current economic scenario.

Dr. Aparna Sawhney spoke eloquently on the idea of Paperless Economy to sustain future generations. Transfer of data using technological tools such as encryption, plays a very significant role in the implementation of mathematics to solve problems today. She further talked about goods, welfare, utility of natural resources and rationality in economics. To maximize our welfare would mean to destroy our resources but, the term she used was 'Dynamic Optimisation', that would enable us to sustain well beyond the span of time. The conclusion made by her suggested the use of mathematics in construction of dynamic growth models which would help to build an environmentally rational society.

Dr. Soumya Datta, a professor of Economics from the South Asian University, improvised of the spoken developments made by Dr. Aparna Sawhney. He emphasized time and again the need to give relevant and precise answers in terms of growth and development to make resources viable for posterity. He discussed the socio-economic impacts of the three Ps: Pollution, Politics and Population. He referred to Thomas Piketty considering Economy and Inequality together. The environmental hazards in MENA countries due to which instability arises in economy was also deliberated upon in the discussion. He ended by saying that Mathematics whilst creating models should also consider social and political aspects of the problem unlike the pure sciences like physics which disregard many hindrances.

Dr Seema Singh, highly appreciative of her co-panellists, tried to integrate the history of economics with rational behaviour. Her opinion settled on considering History as a yardstick which added value to resources. She talked about capitalism, and how it is not sustainable. Herbert Hoover was also mentioned in his wondrous scheme of happiness index to relieve economic distress. After the Discussion, questions were asked which conferred the entire theory behind Keynes' quote, "In the long run we are all dead". So, the truth keeps following us, in the end it all comes to humanity and its will to survive. Mathematical tools are beneficial only to the extent where people actually want to survive. But do we really? Do we really see the greater good? Or are we just lost in cocoons of self-absorption?



C U L T U R A L P R O G R A M M E

-Aastha Shukla and Aseema Choudhary (first year)

Enigma 2020 was inaugurated with a cultural programme on 24th January 2020, Friday with mesmerizing and beautiful performances by the students of the Department of Mathematics. The guests were given a warm welcome by the Head of Department, Dr. Monika Singh and other faculty members. This was followed by the lighting of the lamp by the guests and the teachers.

To start the event on an auspicious note, the students sang the Saraswati Vandana, seeking the blessings of the Goddess of Knowledge. This was followed by a dance performance, which showcased a fusion of Indian and Western styles of dancing. Then, the students from first year, Chhavi, Osheen and Sanya, presented a beautiful piece of slam poetry, which highlighted the theme, 'Being Environmentally Rational'. It reflected how we are consuming the environment daily and destroying its resources. It explained our destructive deeds and disclosed our future. A skit was dramatized by students to showcase the importance of mathematics and how it plays a vital role in our day to day life. Since Republic Day was just two days away, the students also sang some patriotic songs to incorporate the spirit of the same.

Then, the official trailer of Enigma was revealed to the audience. Following which, the President of the Department of Mathematics, Saumya Singh gave an insight into the theme for Enigma- 'Being Environmentally Rational' and the constant efforts of our Department in protecting the environment. She further elaborated how 75% of Enigma décor is made by re-using different materials and how a very successful one-month paper collection drive was organised by the department.

Enigma is truly a celebration of Mathematics and the annual academic meet was dedicated to discovering mathematics in our everyday life and emerge as environmentally conscious students.



ENIGMA 2020

SHERLOCKED

-Chhavi Narang and Shubhi Arora (first year)

Sherlocked, one of the biggest events of Enigma, was impeccably organised by Nayana Nair, Mihika Chitranshi and Shradha Rajpal under the guidance of Dr. Mahesh Kumar and Mr. Kuldeep. The event was an incalculable success. Sherlocked comprised of five rounds. The first round was an online preliminary round. The teams qualifying this round were selected for further rounds of the event, held on 25th January, 2020. Two top teams of the preliminary round were given a direct entry to round 2. The winners of the Treasure Hunt, the pre-event to Sherlocked, were also directly selected for round 2. Overall more than 30 teams graced the event.

In the meantime, that is, after the online preliminary round and before the day of the event, a lot of preparations were made to make this event a huge success in an environmentally rationalway. A number of precautions were taken to incorporate the theme 'Being Environmentally Rational'. The sole motto of the students of the Department of Mathematics was to contribute something to nature from their end. A couple of rounds were made paper-free by turning to digital media. The rough sheets given to the participants for calculations were reused too.

On the day of the event, the teams were given an elaborate tour of the college. Following the tour, round 1 took place. Round 1, named as 'The Logical Interpreter', was an on-paper quiz round. The questions of round 1 were based on quantitative ability and logical reasoning. Twenty teams qualified for round 2. In total, 24 teams participated in round 2, twenty from round 1, top two teams from the online preliminary round and two winning teams of pre-event. The second round was 'Reichenbach', which was a video-based round consisting of different kinds of cipher questions. Teams had to obtain clues from the video and solve the questions under one hour. The teams found the decryption questions extremely challenging. Samarth and Kanika from Khalsa College were amazed by the efficient and polite management of the entire event even when they were left clueless in round 2, as they were amateur cryptographers. Round 3 was named 'Sine of Three'. In this round, the teams were locked in different rooms analogous to an escape room game. Five teams which successfully cleared the round 3 played the final round. Round 4 was named 'The Great Game', which was a treasure hunt round where teams were supposed to find clues hidden around the campus and solve a mystery.

By following a trail of clues and answering tricky questions, the first team which was able to solve the mystery was Starks of Winterfell, comprising Harisam Sharma and Pradyumn Singh from IIT Delhi and the team which bagged the second position was Gods, comprising Ayush Garg and Abhishek Jain from IIT Delhi. When asked about the event, the participants appreciated the level of difficulty and especially the flawless organization of the event. Overall, the event saw great participation and left the participants eager to resume their detective duties next year. The winning teams were awarded with certificates by the union and the teachers of the Department of Mathematics.





ENIGMA 2020 BATTLE ROYALE

-Sumaiya Ahmed and Keerat Kaur Gambhir (first year)

Battle Royale was a new event that was introduced for the first time in the Annual Academic Meet, Enigma 2020. It was organized on the very first day of Enigma, 24th January 2020 and was headed by Navya Saini, Khushi Mehndiratta and Nitya Jaiswal and had Mr. Yograj Singh and Dr. Sunil Kumar as the faculty heads. The basic idea and the inspiration behind the event was derived from PUBG, a video game that the youth seems to be obsessed with. It saw a turn up of 15 registered teams and 7 on the spot registrations, making for a competitive event. The events allowed teams with at most 4 players. The event consisted of 4 rounds-

Round 0: This round was played by the teams registering on the spot, to reach the level of the teams that had already cleared the online prelims.

Round 1- Combat Clash: The teams that qualified the online preliminary round or round 0 qualified for this round. It was a 45 minute pen-paper quiz round that included questions based on PUBG, logical reasoning and mathematics. The top 7 teams qualified for the next round- Battle Loot.

Round 2- Battle Loot: Total 12 teams (7 from round 1 + top five teams from online preliminary round) played this round. It was a hunt for supplies around the campus. The hunt was carried out with clues circulated, that led to different locations where the team that arrived first had the advantage of collecting supplies of their choice. The clues were riddles based on mathematics and PUBG. Once the Battle Loot round started, there was a lot of hustle bustle around the campus with teams running from one nook to another to collect their supplies. In fact, the volunteers could be seen running and jumping after their teams to help them navigate through the campus. From the Battle Loot round 6 teams that qualified were- Cry Babies and Liz, Two Plate Chicken Momos, Cheeky Blinders, Team Blue, The Spectres, The Eternals.

Round 3- Death Match: Top 6 teams from round 2 played this round. In this round the questions were displayed to the teams. The first team to answer the question, was given the chance to use their supplies and eliminate a member from a random opponent team. The team that suffered wasn't targeted further in that round of questions and the team that answered couldn't answer the next question of that round. This proved to be a lot of fun for the teams, who had cheerful interaction during the round. Once all the teams were settled, they could be spotted planning, plotting and strategizing their game. One very evident rivalry was observed between the Cheeky Blinders and the Two Plate Chicken Momos team when they killed a person from the Cheeky Blinders team. But the Cheeky Blinders were no cowards, they came back even stronger and answered most questions correct. When the whole room was speculating the win of Cheeky Blinders, the last question proved to be a game changer because The Spectres answered it correctly and killed the last man standing from the Cheeky Blinders and came out as the winners. The room was filled with gasps of excitement because no one saw this coming. It was indeed a very gripping game. The winning team The Spectres were 4 boys from the Hindu college, Arihant, Hritikh, Gaurav and Samyak. All four were first year studying B. Com Honours. One could see their excitement by the glow of their faces. On being interviewed they said that they didn't expect to get so far but were extremely delighted that they could and would definitely come next year as well for Enigma. The winners not only went back with the happiness of winning but received cash prizes and certificates. The most exciting part for them was beating the team from St. Stephens. They were on cloud nine after their surprising win. Even more surprising were the runners up, Team Blue comprising of Amrita, Prisha and Royna, LSR students. Two of them are pursuing English Honours, having left mathematics in class 10. They aced the pre-event as well as the treasure hunt round. They were all smiles and cheered with their unexpected win.

The event incorporated the theme 'Being Environmentally Rational' in its course by including props that were made from reused materials and the rough sheets provided to the participants for calculations were also re-used. This event minimized waste and became environmentally rational. The whole event was a huge success where the participants enjoyed themselves even with the competitive spirit.







HARRY POTTER: WIZARDS UNITE

Aseema Choudhary and Abhiruchi (first year)

The second day of Enigma 2020 witnessed a truly magical event as the wizards and witches came together to compete for the Triwizard Championship on 25th January 2020. The faculty heads for this event were Ms. Reema Agarwal and Dr. Sunil Kumar. Two rounds of offline prelims were held in the college campus after which 26 teams appeared for round 1 and the top 10 teams made it to the second round. 3 teams were chosen for the main event, Goblet of Fire which had two rounds: 'Identification and Destruction of the Horcruxes' and 'The Objection Round'.

Rapid-fire questions made the event exciting and kept the participants at the edge of their seats. The first round was played seven times and the second one was played four times to determine the winners. With many interesting and mind-twisting riddles and questions, the event was fun and intriguing.

'The Goblins', from IIT-Delhi, consisting of Aniket Mishra, Om Gupta and Dhruv Gupta emerged as winners and were blown away by how interesting the event heads, Apurvaa, Radhika and Sheetal had made the event.

This event full of magic and sorcery was a great delight for all witches and wizards who met fellow-Potterheads and put their mathematical skills to test.





ENIGMA 2020

<mark>ΜΑΤ</mark>ΗSCAΡΕ

<mark>-Sanya Junej</mark>a (first year)

Mathematics and Art are considered to be the pinnacle of human creativity and when they meet, everyone is assured of having a good time! Mathscape was held on 24th January 2020, where participants expressed their love and deep understanding of Mathematics through art, poetry, and photography. Mathscape was the perfect event for writers, ideators, thinkers, and artists who find Mathematics in daily life. The participants had to explore the elements of Mathematics in Nature and create a piece of art within an hour's time. They also had to explain how it connected to the theme. The event was judged by Ms. Jayshree Sahoo, Assistant Professor, Department of Economics, LSR and Ms. Arti Minocha, Assistant Professor, Department of English, LSR.

The event heads were Roli Singhal and Diya Basu guided by Dr. Mahesh Kumar. The theme for the event was 'Limits' and the participants had to literally, extend their limits, to exceed them. Harshit, pursuing B.Com(H) from Shaheed Bhagat Singh College was declared as the winner. Harshit was ecstatic when the event exceeded his expectations and he hopes to attend an Enigma of the same stature and excellence next year. The event successfully bridged the gap between art and science and proved that Mathematics is truly the art of human understanding.



DEPARTMENT EVENT

WOMEN IN BUSINESS' BY MS SURBHI SOOD

-Paavani Mangla (second year)

Department of Mathematics organised a talk by Ms. Surbhi Sood, an alumna of the department, on 14th January, 2020. The talk was on the topic 'Women in Business'.

The session began with Ms. Sood sharing her experiences at LSR and her journey thereafter. She gave insights on how a family business can be an alternative career option.

According to her, people must start from the scratch while joining a business, without expecting a certain kind of special treatment, and always strive to learn from all the experiences that come their way. Despite being the daughter of the chairperson of the firm, she joined the firm as a trainee and earned the post of senior manager through her constant hard work and dedication.

She also talked about how women are stereotyped in technical fields time and again. She advised not to get disheartened by such remarks and to keep moving ahead despite the odds. At the end Ms Sood also shared some examples from her schooling at Indian School of Business, discussing how business schools help in the holistic development of a person and give a first hand experience of the corporate world.

The session concluded with the union presenting the guest with a token of appreciation and thanking her for addressing the students.





DEPARTMENT EVENT

ANUPAMA DUA PAPER PRESENTATION AND SCHOLARSHIP PROGRAMME

-Gauri Bala (first year)

The Department of Mathematics, organised the annual event of Anupama Dua Paper Presentation and Scholarship Programme on 25th February 2020, where students of the department get a chance to showcase their research skills by presenting topics of their choice.

The session started with the welcome of Ms. Anupama Dua's family, who grace this event every year in the loving memory of their daughter. A video compilation was shown where students were made cognizant of the real motive behind ADPP, that is empowering women in research and rigour, and the alumni reminisced about their ADPP experience and how it had affected their lives in a positive way.

The students who had secured the first and second position from each year were awarded the scholarship and then the family members of Ms. Dua along with our teachers and faculty members paid respect to our beloved alumni Ms. Anupama Dua by watering the tree that was planted in college campus in her memory.

After this the paper presentations continued and the students who had presented their papers had an interactive session with all the students and teachers where they would clear the doubts posed by the audience.

Sucheta ma'am, our faculty member, explained to the students how they could improve upon their presentations and advised them for the same, the event culminated with a closing speech by the Teacher In-Charge, Dr. Monika Singh and a vote of thanks by Association In-Charge, Mr. Kuldeep.



The Mathematics family has missed our beloved Uma ma'am as she has been on leave because of health issues. It was lovely for the students to meet ma'am on the occasion of ADPP 2020. We are very glad that ma'am has recovered and we hope that she will join us soon.

DEPARTMENT EVENT

-Mihika Chitranshi (second year)

The Department of Mathematics, as a part of Environment Week, presented its exhibit based on the Sustainable Development Goals designed by United Nations Environment Programme (UNEP). The exhibit focussed on Goal 15: Life on Land, which targets the following:

- · Protect, restore and promote sustainable use of terrestrial ecosystems
- Sustainably manage forests and combat desertification
- Halt and reverse land degradation
- Halt biodiversity loss

The four features were portrayed using the causes and impact of the Australian bushfires, urbanisation, industrialisation and deforestation.

A number of environment friendly measures were taken to prepare the decoration. Material from the Academic meet, Enigma, was reused to ensure maximum environment friendliness.



ARTIGLE SUBMISSIONS FABERGÉ FRACTALS

-Nayana Nair (second year)

Fractals are patterns that repeat at every scale-creating never-ending swirls, lines, and curves that have astounded the natural, math, and art worlds for centuries. Tom Beddard aka subBlue, is a UK based physicist-turned-artist and web developer who created digital renderings of 3D Fabergé eggs (a jeweled egg created by the House of Fabergé, in St. Petersburg, Imperial Russia) covered in these detailed fractal patterns. He refers to these creations as Fabergé Fractals. They are digitally rendered three-dimensional geometric wonders created using a formulaic method

Beddard explains: "The 3D fractals are generated by iterative formulas whereby the output of one iteration forms the input for the next. The formulas effectively fold, scale, rotate or flip space. They are truly fractal in the fact that more and more details can be revealed the closer to the surface you travel."

"The fascinating aspect is where combinations of parameters can combine to create structural 'resonances' of extraordinary detail and beauty-sometimes naturally organic and other times perfectly geometric. But then like a chaotic system it can completely disappear with the smallest perturbation."

His beautiful work can be found on his website: http://sub.blue/.









ARTICLE SUBMISSIONS AN APPEAL

-Rajlaxmi Adwant (third year)

India, Delhi in particular, has been through a lot over the last few months. Violence at Jamia, JNU. CAA-NRC. Riots. This article is not propaganda in any form, but an appeal. An appeal to be aware, and to be sensitive. In the flurry of classes, submissions, final year blues, events and personal life, it is easy to turn a blind eye and go on with life for most. Word in focus: 'most'. With everything that's been happening, a popular response, or excuse that I have often come to hear is "I'm not into politics./I'm apolitical." Being apolitical is a privilege. That these events have not (yet) affected you is also a matter of privilege. As a citizen, your duty is to be political, that is, to educate yourself about and take interest in public affairs. Don't shy away because of the connotations that come with the word 'political'. My intent here is not to ask anyone to step out to protest or engage in online activism. I simply wish to appeal to you all to be aware. Try to understand what's been happening, whom it affects. Is anyone around you affected? Is there anything you can do to help your affected friends? Be sensitive when you say such things as "I am apolitical." Be kind to others.

ARTICLE SUBMISSIONS BAN DAGES DON'T FIX BULLET HOLES

-Tanya Borah (first year)

Bandages don't fix bullet holes Bullets make you bleed, scream and wail From the agony, aggression and pain But who in the world said that the largest bullets are just 95 inches When in reality they actually exist in forms of syringes Syringes filled with hateful words injected in my system By people who I should have kept at distance Who fired these brutal bullets from their tongue cum pistols They were just really hurting in their own stories Dragging everyone down with them in this purgatory Because how can a damaged soul let another be innocent still Drilling these bloody bullets into their systems until The day when there remains no difference between anyone of us All of us just scarred, scared, bruised and broken Pushing on this notion of destruction From family to "family" From friends to "friends" Heal not thyself But destroy others Bullets aren't just the ones fired from handguns Some are fired by those mouths which once said they'll never abandon us



ARTICLE SUBMISSIONS LIFE: A BLISSFUL JOURNEY

-Shubhi Arora (first year)

Shadows behind the hues Whose darkens deepens. Darkness beneath the few Whose ashes waken Ashes above the seams When war threatens. War among the living To break things broken.

Breaking in the treachery That faith couldn't Faith to the fear That we failed to overcome Failing in the lessons Which weren't meant for survival Survival among the beings who rather wished to live. And living among the beings who rather wished to die.

Why survive, when you can live? Why fear, when you can fight? Why the chaos, when all you need is calm? A conundrum of dreams. A cacophony of destined deeds lost amidst the plethora of wild beliefs. A life in enigmatic distress. A fire igniting from the ashes A dissonance transforming from resonance A disharmony in the world of symphony.



ART ATTACK ARTWORK & PHOTOGRAPHY



Swasti Arya (second year)



Swasti Arya (second year)



Sumaiya Ahmed (first year)



Sumaiya Ahmed (first year)



Sanya Juneja (first year)



Aseema Choudhary (first year)



COLUMN TO A

QUANTUM 2020 DIGITAL EDITION DECEMBER-MARCH l

m