MARVELOUS MARCH

Cognizance

INDEX

- News@ieee
- Appscenter
- Book Review
- Fashion Column
- Gamerstag
- High on Sports
- Movie Review
- Mythology
- Poetry Column
- Politically Yours
- Science Column
- Technical Column
- Photo winners
- Quiz

Divine Institute Of Professional Studies

"Dream big dream as they do come true"

Coaching Classes for Following Courses

B.Tech/BBA/BCA/B.Sc. for MDU/IPU/PTU/KU/DU/BVP

SHORT TERM COURSE

C, C++, JAVA, Dot Net, Linux

LANGUAGE CLASSES

» German » Punjabi » TOEFL
» French » English » IELTS

*CIRCUTS AND SYSTEM
*SIGNALS & SYSTEMS
*ELECTRICAL SCIENCE
* D.S.P
*COMMUNICATION SYSTEM
*ANALOG ELECTRONICS
*MATH-I, II, &III
* ELECTRICAL MACHINES
*LINUX, JAVA, C++
*CONTROL SYSTEM
*CONTROL SYSTEM
*ENGINEERING MECHANICS
ENGINEERING DRAWING
ACCOUNTS, ECONOMICS,
VEDIC MATHS

Contact:- 7503251241, 9311484392

WZ-106/122, Rajouri Garden Extension, Near Cambridge Foundation School
Behind Tagore Garden Metro Station, New Delhi-27

Editorial

As the year moves ahead, we aim at giving our best to Cognizance each month. This month's theme being 'Changing Seasons' , seemed the most appropriate because March is the month of shifting weather , from the dreaded winter to a flowery spring , changing world scenario, fast advancing technology and most essentially the changing face of National Politics.
I hope Team Cognizance always fulfils your expectations from the Newsletter. Wishing you many more Happy reads.

Cheers!

Aishwarya Kaul
Editor-in-Chief

As we enter the spring season, leaving the chilly winters behind, Cognizance brings to you the March issue, aptly titled 'Changing Seasons'. Change is inevitable and as they say, it is the only constant. Change touches every sphere, be it politics, science, world developments, technology, changing of the guard in the world of sports and obviously, weather. This issue encompasses the range of many such fields where change leaves its mark.

We hope you receive this issue with as much enthusiasm as the previous ones. Reviews, as always, are welcome.

Cheers!
Dharvi Verma
Editor and Documentation

The advent of March ushers in the blossomy spring into our lives. This gives Team Cognizance another reason to bring to you a new vibrant issue, our magazine's March issue based on the mood of the weather & the nation, "Changing Seasons". With each of our column & the quiz, we aim at bringing to you the latest & freshest developments around you.

Sumedha Arya
Editor and Documentation

IEEE
BHARATI VIDYAPEETH
PUNE
WINTER HAS GONE
bvpIEEE
PASSION FOR PERFECTION
FERVOUR IS COMING
HKN
IEEE Women in Engineering
WIE
IEEE Robotics & Automation Society
RA
RO
CODEX
Drishti
GAMMA
BVCOE Quiz Club

IEEE news

LAMBDA ETA

wins

Outstanding Chapter Award

2012-13

It's with immense pleasure that we inform you that Lambda Eta Chapter at BVCOE (IEEE-HKN) of Eta-Kappa-Nu has been awarded the Outstanding Chapter Award for 2012-2013. This coveted award is a mark of great distinction for a college chapter and firmly establishes our college on the international map.

FERVOUR '14

BVPIEEE, the IEEE Student Branch of Bharati Vidyapeeth's College of Engineering, New Delhi, presents its annual technical and managerial fest: FERVOUR 2014!

After 'Going green', 'Changeneering' and 'COMBATING VIRUSES: Infection for Perfection!', we're back with a new theme:

FERVOUR '14: LIVE YOUR REALITY IN THE VIRTUAL WORLD

Fervour, now in its 7th edition, is one of the biggest technical-cum-managerial festivals in Delhi and promises to deliver to the fervent admirers of technical, managerial and literary activities.
Get your technical fix at Fervour 2014, which promises to be bolder and bigger!

COGNIZANCE AT FERVOUR '14

The contest being held under Cognizance in Fervour 2014

The Brush Battle :

Participants will be given out a theme/topic pertaining to which, they will have to design the cover page of the magazine.

Marketing contest; wherein participants will have to show their convincing skills and sell the magazine. The catch is that the magazine will have an unusual theme. They will have to convince people to buy it.

Hope you readers are eager to participate!

GAMING APPS..

Hola amigos!!!! This column is dedicated to gaming apps for this edition. Gone are the days when 'snake' was the only game in mobile phones. New smart phones have brought the gaming era to our palm. Latest technology that has enhanced gaming is gestures. The graphics used in games are hitting new heights. The games range from time wasters to racing to shooting to cutting edge graphics. Let's have a look at some of the games and choose as per our taste:

anuj aggarwal

VIRTUA TENNIS

Virtua Tennis Challenge is a tennis video game developed by SEGA. It is available for iOS and Android smart phones. This game offers up to 50 different players that you will have to defeat in 18 international stadiums located around the world. This is the coolest game for multiplayer gaming, you connect your phones with wifi or Bluetooth and have mind-boggling experience. This app offers stunning realism and a deep addiction.

ASPHALT 8

It is the best arcade racing game available in the market for smart phones. The latest edition –airborne reaches a new turning point in racing game era. "Leave gravity in the dust" is the best suited line for this game.

. This game offers intensive driving experience. Asphalt 8: Airborne rewards for tricks you perform while you are in the air, like doing Barrel Rolls or Flat Spin jumps. You can do Barrel Rolls by driving onto one of the many angled ramps present on the track, letting a mix of gravity and momentum do the rest.

N.O.V.A 3

Near Orbit Vanguard Alliance aka N.O.V.A comprises of an elite squad of intergalactic commandos equipped with all kinds of hi-tech gear to save the earth and its survivors, as a whole the mankind against the evil. N.O.V.A 3 also has a multiplayer option built in where you can play with the online community or between devices. A total of 12-player battles scenes are available in 6 multilayer modes including Capture the point, Free –for-All and Capture the Flag on 6 different maps. The game also has very high graphics. The game ranges various unique firearms. It is the best first-person shooting game available on android market.

VECTOR

Vector is an exciting, arcade –style game featuring you as the exceptional free runner who won't be held down by the system. The setup of game is like that you're a drone. A faceless, mindless worker among millions of the same. Big Brother is watching.

. Suddenly, you can take no more. With an anguished cry you break free of your workstation, dash down a hallway, and crash through a window. Careening through the air, you land on a rooftop, where begins your endless run toward freedom with enemy agents in hot pursuit. It is a full motion sensing game and a worth to download.

BOOK REVIEW

THE GARDEN OF THE GODS

Aishwarya Kaul

BOOK: THE GARDEN OF THE GODS
AUTHOR: GERALD DURREL

Yes! I cannot get enough of my favorite author. The book truly deserves standing ovations (never have I praised anything to such an extent as this). The third in the Corfu Trilogy, The Garden of the Gods is yet another flamboyant, hilarious and mesmerizing depiction of the five years the Durrell family spends on Corfu. With insane neighbors, a madly happening family and tones of pets and animals, this book yet again, proves to be a treat to read.

The book gives a vivid description of the island landscape, the flora and fauna and we feel as if we are taken right there, to the land of golden sands, blue skies, frothy seas, whistling cypress and weird but lovable animals. The book is filled with island folk tales and dreadfully funny puns, reading which, I could not stop myself from laughing.

The tone is this edition is a little sterner than the previous ones; nonetheless, each sentence is amazingly well phrased.
On a more personal note, I once was reading this book in my class in the free time, the class being full, I was so amazed by the humor in the book, that involuntarily, I started laughing and couldn't stop myself. Hence a warning in Public Interest, do not read this book in a public gathering!

Your Crowning glory

"The right hair can make a plain woman beautiful and a beautiful woman unforgettable."

-Sophia Loren

Shreshta Jain

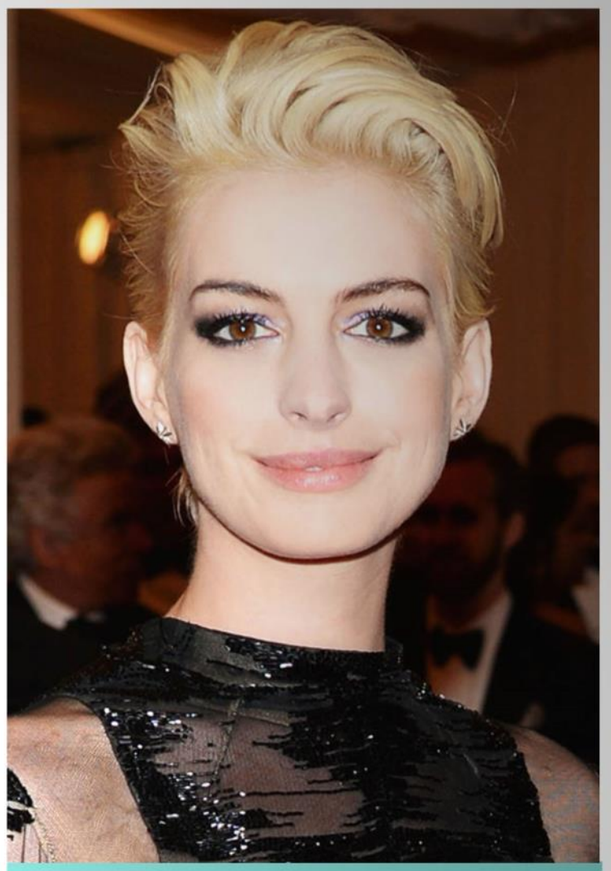
Ponytails are back in fashion with bang and the fresh seasoning added this summer to it is the ornate ponytail. This fussy form of ponytails is the recent and easiest to try hairstyle for the season.
Make it high make it low, sleek or messy-Try it all.
Here is JLo with a neatly tied up ponytail making her look elegant and beautiful.

Old world braids
The romantic braids never go unnoticed. They are simple yet beautiful and most importantly time saving. Tie them up. Use them as a headband. Or just leave the way they are and you are ready to step out.
So have look at these young beauties and try your new look.
The talented young country singer is all alluring with her braid tied up as a head band.

The bollywood fashionista Sonam Kapoor is as usual looking very pretty with her fishtail braid.

Planning to add colour to your mane?
Have a look at some A-listers to know what and how to experiment with to have a brand new look.

Get your hair coloured brown and add bold streaks to it. Sounds last decade? But this is exactly what Deepika Padukone's recent look was that we all gawked upon.



The ultimate chic Anna Hathaway is yet again all feminine and edgy at the same time with her crop bleached.
Just like the wolf of the Wall Street shined this year so do Margot Robbie's hair, with the hint of honey in her pale blonde.

Change your Consoles in this Changing Season!!!!

by: Shivam Bindal

The time has come, brace yourselves and get ready to spend some more bucks to get your hands on the next generation consoles. With the launch of **Sony PlayStation 4** in India, gamers now have a new option to explore the "out of the world" graphics and experience some of their favorite games franchise. With over 180 titles in development including "Batman Arkham Knights", "Kingdom Hearts 3", "Final Fantasy XV", "Infamous: Second Son" and manymore astounding titles, Sony PS4 is all set to conquer the gaming industry leaving behind its primordial rival **"Microsoft Xbox"**. With some minor differences in hardware and a 100$ in price between the two (PS4 being a 100$ cheaper than Xbox One), PS4 is proving to be a dear winner by selling more than a million consoles in the first week of its worldwide launch. Here is a quick insight to the hardware specifications of Sony PS4 and Xbox One.

Sony PlayStation 4 (Price Rs.39,990)

Major highlight of PS4 is its completely new DUALSHOCK 4 controller, wireless motion sensing controller with adjunct touchpad on the top for some extra features.

PS4 packs a Single-chip x86 AMD "Jaguar" processor with 8 cores and AMD Radeon Graphics Core Next engine with 1152 shaders.

PS4 also comes with 500 GB 5400 RPM HDD and 8 GB DDR5 RAM which will surely provide an ultimate experience for Hardcore Gamers.

XBOX-ONE (YET TO BE RELEASED IN INDIA- EXPECTED IN OCTOBER'14)

MAJOR HIGHLIGHT OF XBOX ONE IS ITS NEW **KINECT** WHICH COMES BUNDLED WITH THE CONSOLE AND ENABLES MOTION AND VOICE CONTROL OUT OF THE BOX. IT COMES WITH 1080P CAMERA WHICH IS MAJOR IMPROVEMENT OVER ITS PREDECESSOR WITH **VGA** SENSOR CAMERA. HOWEVER, USAGE OF **KINECT** IS LIMITED TO FEW TITLES. APART FROM **KINECT**, XBOX ONE PACKS AN 8 CORE MICROSOFTCUSTOM CPU WITH 853 MHZ AMD RADEON GPU.

XBOX ONE ALSO COMES WITH **500 GB HDD** AND **8GB DDR3 RAM.**

GOING THE EXTRA MILE:

WHY ROGER FEDERER IS YOUR QUINTESSENTIAL ROLE MODEL

BY:DHARVI VERMA

This isn't an article meant for waxing about Roger Federer's achievements as a tennis superstar. This isn't about the accolades and awards he wins on a daily basis. This piece is about an athlete rising above the materialism, cheats and scandals that have marred the sporting community, and giving back to his fans. I just want to tell a story which I read on the web and which touched my heart, and took my admiration for Federer to greater heights.

This is the story of Beatriz Tinoco, a 17-year-old teenager hailing from Maryland who had survived a battle with cancer in 2011/2012. She made a simple wish to the Make-A-Wish Foundation in 2012 - meeting Roger Federer. In June 2013, she was told that ESPN was doing a piece on her high school tennis team and that is when she was told that she'll be meeting her idol.

The way she was informed is no less than a fairytale in itself. A video of Roger greeting her with, "Hi Beatriz, I heard you're a big fan of mine, so I'm inviting you with your family to come watch me play at Wimbledon. Go pack your bags, have a safe trip, and I'll see you there" freaked her out in her own words.

She flew to London the very same week and met **Roger** for the first time in the players' lounge. He greeted her with a hug and talked to her for some 15 minutes. The meeting was supposed to end there but Federer, being a mensch if there ever was one, invited her to watch his practice with fellow player, **Lleyton Hewitt**.She was even introduced to Federer's entourage-his coach **Paul Annacone, Swiss Davis Cup captain Severin Luthi** and others. She even got a chance to hit with Roger on the court.She was scared because she felt that she was good but nothing out of the ordinary.But she overcame all her anxiety when Roger's coach, Paul,told her not to be scared of Roger at the net because it was all pressure, and he wasn't even

that good!

Just when she thought that Roger had already gone beyond the call of duty and done enough, he told her that he was going to see her two days later for a tour of the **Wimbledon** grounds. She was shown around the all the **SW19 courts** the following Sunday, including the Centre Court which is often called the 'holy ground of tennis', by Roger and the Chairman of Wimbledon himself. If all this hadn't surpassed her expectations already, he invited her to his press conference and even kept it on hold until she arrived.Being done with all the interviews (he does press in 3 languages, just so you know), he met Beatriz and her family in the players' lounge and signed autographs and other tennis related stuff for them, personally addressing each one of them.

To describe the end of the meeting, I'd quote her exact words, for she has written beautifully how she felt:

"He stayed a lot more than he had to for sure. But then the people from ESPN tried kind of finishing things up so that he could leave before his manager freaked out. So he went around the table hugging my mom, my dad and my sister, and then it was my turn.

He told me I had been through a lot and hugged me really hard and I just started crying so much in his shoul-der (it was around that time that the picture from my avi was taken haha) He was like "awnn". Then when I let go of him I was still like sobbing and I turned to him and he was kind of tearing up :') I thanked him and then he went."

So there you have it: **Roger Federer, the people's champion.**

Movie Reviews

by : Anshul Sharma

March 2014, was a full packed movie month with some of the big movie releases like "300: Rise of an Empire" Russell Crowe's "Noah" and "Dallas Buyers Club". And some critically acclaimed bollywood releases like "Gulab Gang" and "Queen". So here are the movie reviews of some movies released in March and movies to watch out for, that would be released in later half of March.

300: Rise of an Empire

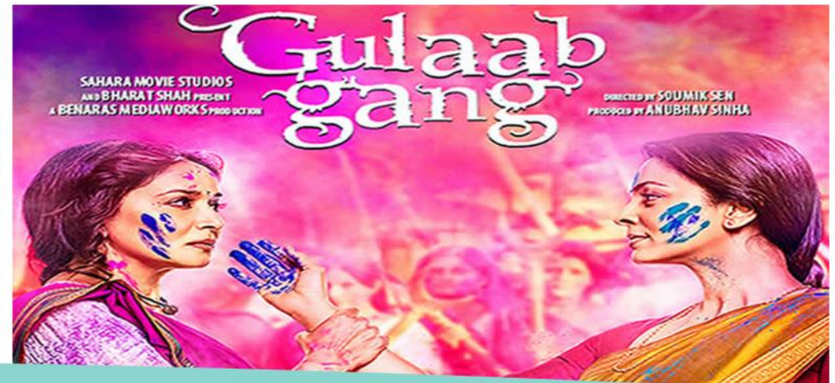
Director: Noam Murro
Cast: Sullivan Stapleton, Eva Green, Rodrigo Santoro, Lena Headey.
Rating: 7 out of 10
Review: The movie is basically "sidequel" of its former installment "300", as it depicts the events taking place before, during, and after the events of the movie "300". The movie involves harsher fights, more blood, and more extreme action scenes as compared to its predecessor, but lacks somewhere down the line in the cohesiveness of plot. The movie picks up from where "300" ended-with the end of King Leonidas (Gerard Butler), a new hero emerges as Themistocles (Sullivan Stapleton) a Greek commander. Unlike original movie, this time around battle is not only for territory, but for vengeance of the cold blooded slayer Artemisia (depicted by Eva Green) who coaxes "Xerxes" to avenge her parents' inhuman killing by Greeks.

Dallas Buyers Club

Director: Jean-Marc Vallee
Cast: Matthew McConaughey, Jennifer Garner, Jared Leto.
Rating: 8.5 out of 10.
Review: Released on 28th Feb. in India, this movie has now made many people flocking to theaters as it got two Oscars, Matthew McConaughey and Jared Leto for (Best actor), and (Best actor in a supporting role) respectively at 86th Academy Awards 2014. Dallas Buyers Club is a story about an improbable hero (Matthew McConaughey) who stars as a real-life Ron Woodroof a Texas cowboy who leads a party-hardy reckless life, whose freewheeling is turned upside down in 1985 when he was diagnosed as HIV-positive and given only 30 days to live by the doctors. It's a real life story of survival and struggle of Ron Woodroof.

Gulab Gang

Director: Soumik Sen
Cast: Madhuri Dixit, Juhi Chawla, Tannishtha Chatterjee, Divya Jagdale, Priyanka Bose.
Rating: 5 out of 10.
Review: This movie is basically an action, drama movie focusing on the struggle of women in the country. In movie Madhuri Dixit and Juhi Chawla plays an antagonist to each other. Madhuri Dixit plays a role of the brave leader of a pink saree-clad gang of women based at, Madhopur, Uttar Pradesh. The Gang has a list of demands like electricity, ration, education for girls and to end corruption and can go up to any extent to deal with the errant males of their rural society, "latthi" wielding members of this gang are capable of breaking limbs and to bring several culprits to justice. Juhi Chawla plays a power-hungry, despicable politician Sumitra Devi. The face-off between two which was supposed to stir up drama fails to do so.



Movies to watch out for:

Need for Speed

Cast: Aaron Paul, Dominic Cooper, Imogen Poots,Scott Mescudi.

Plot: The story chronicles an almost impossible cross-country race set against time. Movie is adaptation of a famous video game by same name.

Noah

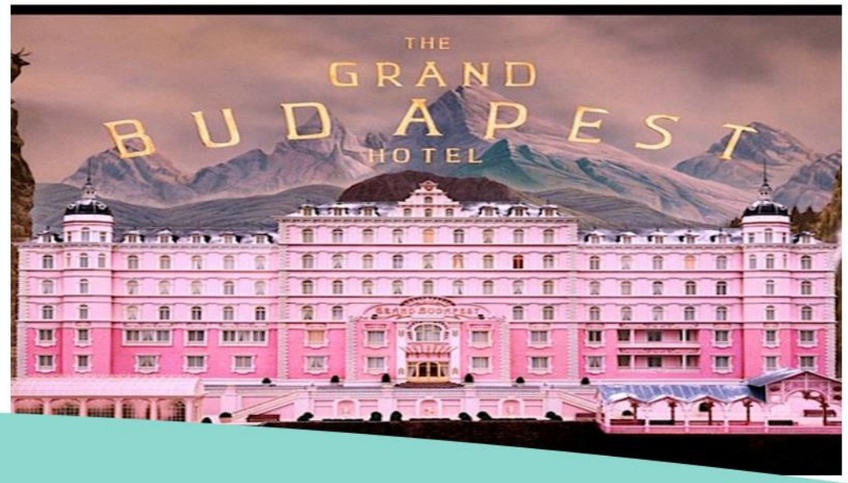
Cast: Russell Crowe, Jennifer Connelly, Ray Winstone, Emma Watson.

Plot: Noah is a biblical epic movie, depicting measures taken by biblical Noah to save his family from apocalypse.

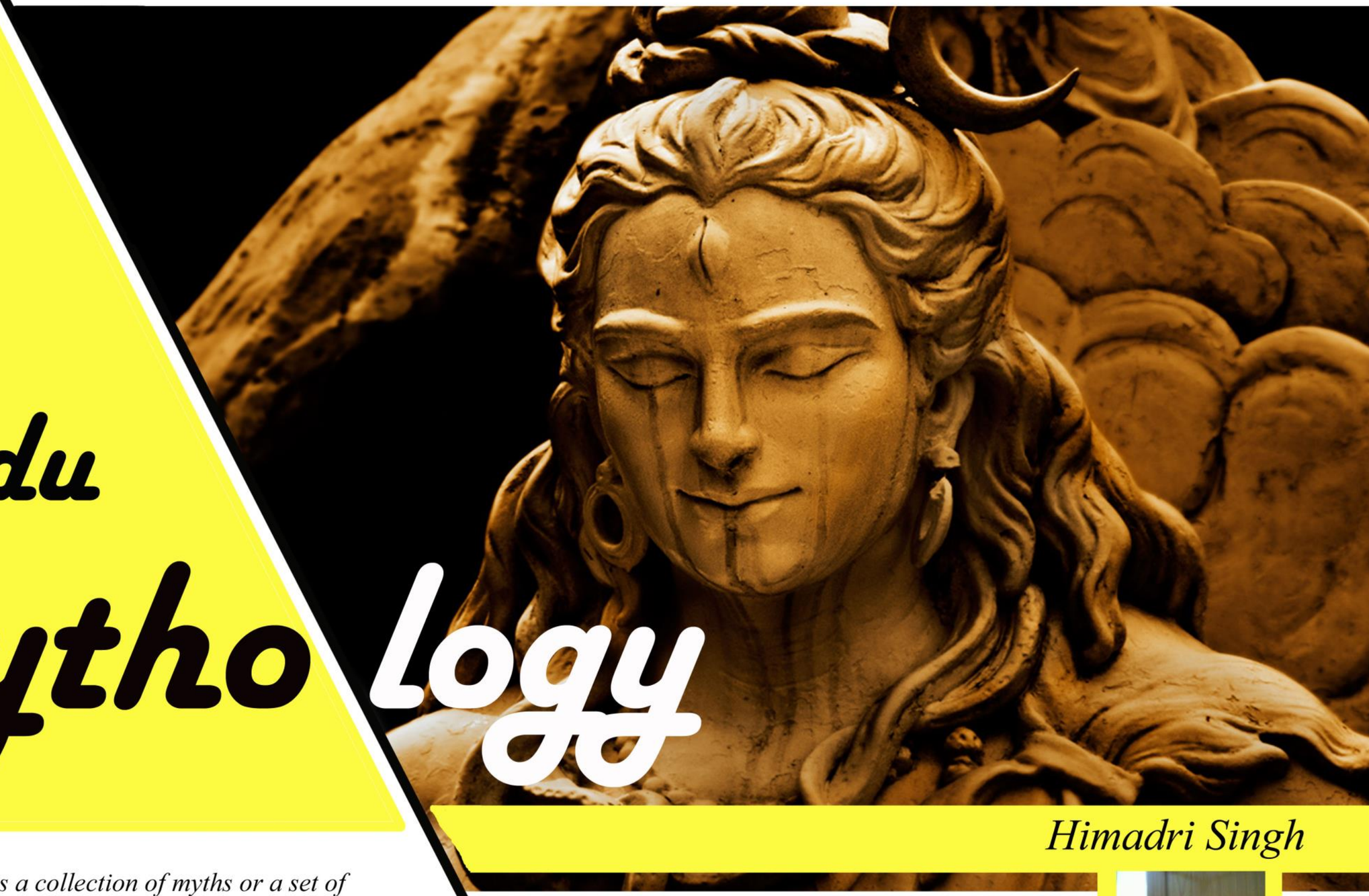
The Grand Budapest Hotel

Cast: Ralph Fiennes, F. Murray Abraham, Mathieu Amalric.

Plot: Movie depicts the adventure of Gustave H, a legendary concierge at a very famous European hotel, where he befriends a lobby boy who becomes his most trusted friend.



Hindu Mythology



Himadri Singh

The word mythology means a collection of myths or a set of widely held but exaggerated stories or beliefs according to the oxford dictionary. Thus, every mythology around the world is a set of myths on which a religion is based
In this edition, we try to decipher the different realms of hindu mythology.

The Origin

Indian mythology dates back to as early as 7200 BC when the first hymns of RIG VEDA was composed. The hymns of RIG VEDA were the first and the freshest expression of the sense of beauty and gladness awakened in the Aryan race by the charms and the bounty of nature. What began as a celebration of natural elements such as Air, water and Fire was converted into the worship of cosmic elements. And, thus formed the triad of early VEDIC GODS- AGNI , VAYU AND SURYA. The vedic gods are mere abstractions, intangible and illusive personifications of the powers of nature.

Its the post VEDIC phase or in the PURANAS the gods assumed substantial shape and individual character. In the late vedic period the two ITIHAS or the epics RAMAYANA and MAHABHARATA were compiled. The heroes of the Vedic age gradually took place of the shadowy gods of Vedic gods and found their places in the PURANAS. This formed that phase of post vedic gods or the puranic gods who had their seeds and roots in the Vedas giving rise to the concept of TRIMURTI.

Thus emerged the transition of hindu mythology from Vedic gods(the cosmic trinity) to puranic gods(The hindu trinity) who took more significant form and entity and have been worshipped in various forms ever since.

COSMIC TRINITY

Vedic gods assumed the most undoubted personality of the real personality of the real quantities intended to be expressed by their names. They have no fixed hierarchy or regular genealogy and no settled marriages or relationships; they remain to the last transparent reflections of those physical phenomenon and powers of which they are the earliest known appellations.RIG VEDA- lore of the verses, enumerates numerous Vedic gods. The earliest accepted gods were :

DYUSH PITA(The sky father)
PRITHVI MATHA(The earth mother)
SURYA (sun god)
VAYU (the wind god)
AGNI(the fire god)
VARUNA(the god of oceans)

HINDU TRINITY

The Vedic age saw the compilation of two great ITIHAS (epics) , the RAMAYANA and MAHABHARATA. In these epics, the stories of gods were supplemented and expanded as they were woven into the narratives and the popular heroes themselves got assimilated into popular religion and became defined. Further development of the Indian society brought about changes in religious concepts and an increase in the size of the pantheon. This grew by a process of absorption ,combination and adopting popular deities into one.

Thus, the vedic deity Vishnu was identified with VASUDEVA and another epic hero Krishna. Later Krishna got himself assimilated with a pastoral flute- playing deity and became subject of many poems and legends.At the same time an ancient fertility god SHIVA was elevated to the higher ranks of pantheon and became an important deity with a variety of forms that gave him popularity equal to that gave him popularity equal to that of Vishnu. Shiva and Vishnu were visualized as forming a tried with Brahma. The concept of Trimurti-The Puranic gods emerged and gained importance over the centuries as BRAHMA- The creator, VISHNU-The preserver and MAHESH or SHIVA- the destroyer came to denote the three characteristics of GOD- Generator,Operator,Destroyer and the basis of Hindu Trinity.

OM

Om or AUM is the symbol of essence of Hinduism.It means oneness with the supreme, the merging of the physical being with the spiritual. The most spiritual syllable, the sound from which emerges each and every other sound, whether of music or of language.

According to the Taitreya Upnishad the origin of language is assigned to Prajapati, from whose meditation on the three words arose the three Vedas and from this meditation arose the three syllables BHOOR, BHUVA AND SUAH which represent Earth, Atmosphere and Sky. From his meditation on these three originated the syllable of OM. THE SYLLABLE OF OM REPRESENTS THE TRIMURTI-BRAHMA,VISHNU AND MAHESH. Shiva's drum produced this sound and through it came the notes of the octave i.e SA, RE, GA, MA, PA, DHA, NI. Thus, this sound Shiva creates and recreates the universe. OM is also the sound in form of Atman.

Thus, all the gods of hindu mythology are personified versions of thousands of varied powers of nature and are related to each other through myths and fables so as to signify these relation between the different forces of nature which rule the universe.

CHANGING SEASONS..

ARUNIMA SHARMA

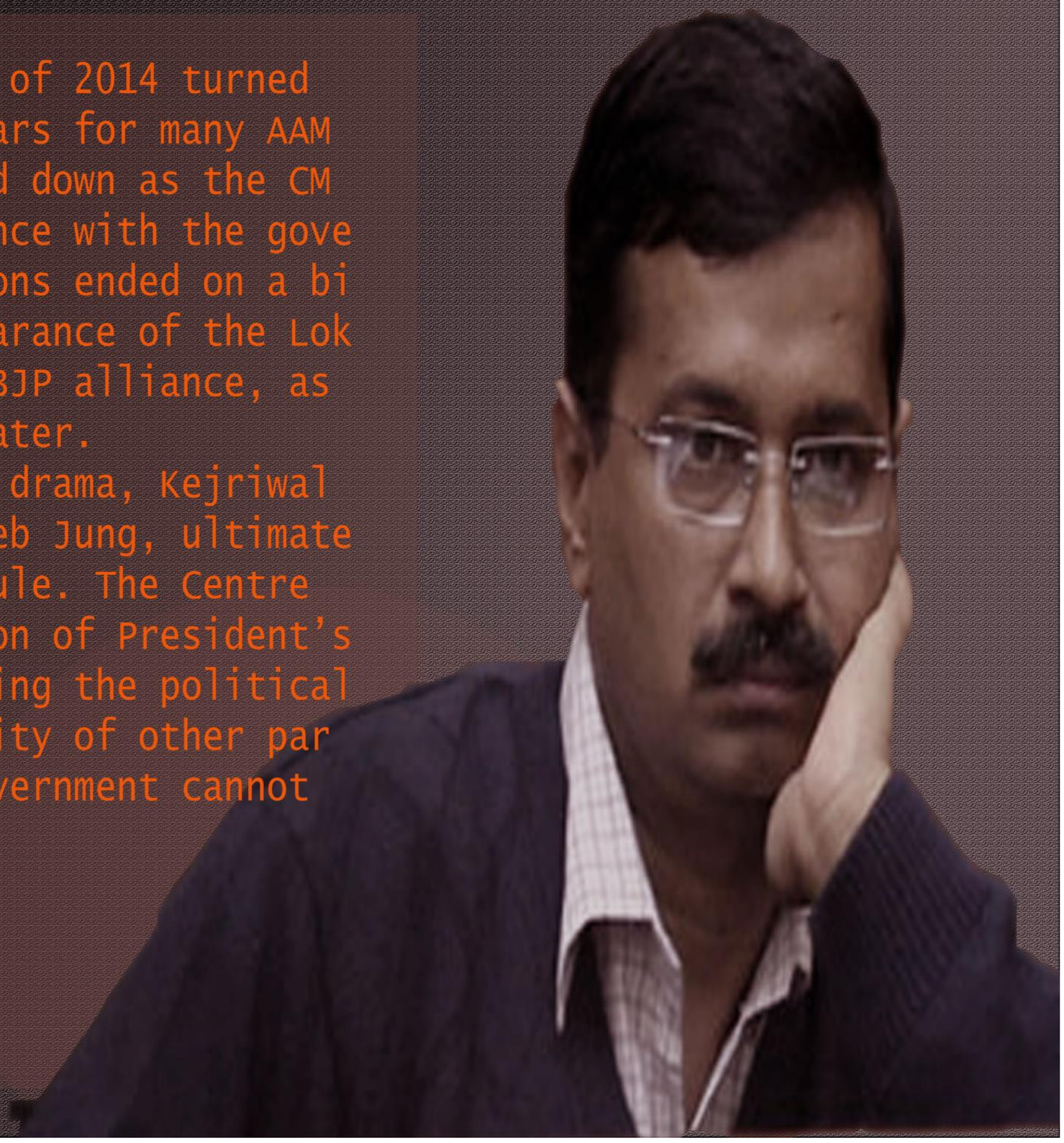
The winter is over and the summer awaits,
The vigorous season, just pleasantly abates,
The Gloomy days of winters freeze again,
The Warm Summer is arriving with signing rain,
Find happiness in the phenomenon of Changing Seasons,
Love the Changes in Life, the happenings, those reasons,
Be sane enough to accept the time swiftly transposing,
Life is just 'the Change' personified, never an eternal spring,
Oh Human! Take some time off the materialistic life,
Today! Let's observe the beauty of hereby changing time,
Introspect and listen Mother Nature's lullaby in the ear,
Open up the spiritual eyes to scrutinize this time of the Year,
Tickling Freshness of the warmer sunshine,
Kissing breeze, singing secretly a rhyme,
Rejuvenating melodious chatter of Aerial Fauna outside,
Everything makes the Natural Habitat is so serene, so sublime...
Nature is happy with switching over to new,
Seems evident in the magnificent signs observed by few,
Because, The Winter is over and the summer awaits,
The vigorous season, just pleasantly abates....

(c) sabrane.deviantart.com

POLITICAL THOUGHTS

14th February i.e. Valentine's Day of 2014 turned out to be a day of heartbreak & tears for many AAM Aadmis when Arvind Kejriwal stepped down as the CM of Delhi. AAPs "Nayak-styled" romance with the gove-rnment & the aam aadmi's aspirations ended on a bi-tter note with the failure of clearance of the Lok-pal Bill, thanks to the Congress-BJP alliance, as alleged by the AAP spokespersons later.

Amid much tension & even much more drama, Kejriwal handed his resignation to L-G Najeeb Jung, ultimate-ly leading Delhi to President's rule. The Centre on March 6, justified the imposition of President's rule in the national capital, stating the political situation was "fluid" and possibility of other par-ties staking claim to form the government cannot be ruled out.



By:Sumedha arya

First, Kejriwal was detained, followed by AAP's supporters' hooliganism at BJP offices in Delhi, Lucknow, Jhansi, Kanpur and Allahabad, resulting in ugly clashes with dozens of people wounded on the very day the election dates were announced. This was followed by Kejriwal's unofficial declaration of war against Modi, giving the Gujarati population an alternative to BJP & Cong-ress.

While "corruption" remains AAP's agenda this season, "development under Modi's rule" is BJP's slogan. When BJP is trying hard to portray Modi as the secular face of united India with the "Gujarat development model", the UPA is trying to score brownie points with Rahul Gandhi's "youth icon" image. While most pol-itical pundits call this UPA's desperate attempts to revive its dying popular-ity, Congress is still hopeful of making a comeback by pressing on its work on Women empowerment, RTI, MNREGA etc.

Elections for the 16th Lok Sabha elections will be held in nine phases, the highest so far, between April 7 and May 12 and involve an electorate of 81.4 crore. New Delhi goes to polls on April 10. Each party is trying its best to lure voters. But who shall have the last laugh remains to be seen. Let this change of seasons bring about a change in our system & lives too. Vote for cha-nge!

EXPLORING SCIENCE.....

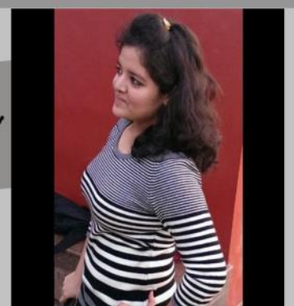
Fire Tornado ....

A small one makes people wonder and amazes them. A large one is a bit scary and forces them into their shelters. A mon-strous one? Well... kills them, simple!

There is a reason why a tornado is sometimes referred to as "the finger of God".

Violently rotating column of air, or whirlwinds to be more precise, a tornado remains in contact with both the surface of the earth and a cumulonimbus cloud (a dense cloud whi-ch grows vertically instead of horizontally, associated with a thunderstorm). If this naturally occurring phenomenon strik-es with an intensity of F-4 or F-5 on the enhanced Fujita sc-ale, it becomes the most devastating weather on Earth which leaves behind nothing,

By : Payal mangla



EXPLORING SCIENCE.....

A fire tornado is an extreme case, often with a rating of F-5 on the Fujita scale. It occurs when intense heat and turbulent wind conditions combine together to give rise to petri -fying fire whirls. Analogous to any other tornado, it consists of a central core- the part which is actually on fire- and an invisible packet of rotating air which is responsible for supplying combustible gases and oxygen to the burning central core. Large forest fires or wild house fires spawned by a natural disastrous storm lead to the formation of a fire tornado. The core of a typical fire tornado is 1 to 3 feet wide and almost 50 to 100 feet tall (approximately equivalent to 12 stories). But in case of large fire tornadoes, the core can be several tens of feet wide and maybe more than 1,000 feet tall! Furthermore, the temperature inside reaches up to 1,090°C, hot enough to melt almost anything.

CREATE YOUR OWN BACKYARD FIRE TORNADO

1. Place a glass or a metal dish in the middle of a Lazy Susan (tray) .

2. 2. Cut several pieces of sponge and place them in the dish. Soak these pieces in a combustible li -ght fluid.

3. Put on your safety glasses. Now, ignite these pieces of sponge and place a wire screen cylinder on Lazy Susan, covering the glass oR the metal dish .Start spinning the tray gentlY and watch as the fire twists into the shape of a tornado! The fire tornado will rise as the tray spins faster and faster.

CHANGING TIMES

Hello guys. I have been religiously following the Mobile World Conference for some time now and I have to say this year there was not much mainstream innovation to be seen this year. There has been a shift to more of bio-electronics in the phones.We obviously had announcements form all the big mobile phone developers there was Nokia X, which frankly has nothing new has Asha tile interfa -ce with android support it is NOT an android device, new Galaxy S5, Samsung Gear Fit Gear 2 and Gear Neo, Sony Xperia Z2 &Xpe -ria Z2 Tablet and HTC Desire 816.

Here is a list of stuff that didn't make big news lines but are awesome!!

1 Yota Phone 2

YotaPhone 2014 specifications

- -5-inch 1080p full HD display (442ppi) w/ secondary e-ink display
- -Qualcomm Snapdragon 800 quad-core CPU
- -2GB RAM
- -32GB internal storage
- -8MP/2MP cameras
- -2,550mAh battery
- -Android 4.4 KitKat
- -50 hrs of battery life in stand-by mode.

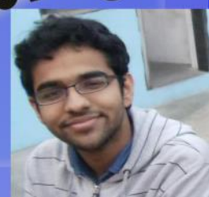
PARANOID ABOUT SPY AGENCIES TAKING YOUR DATA?

At MWC two phones were released for those who are paranoid that their calls might be taped or someone maybe sieving though your personal information.

2 Boeing Black

Boeing's secure smartphone has been fully detailed, the Android device built with the intentions of keeping your data secure It has dual sim feature that allows the user to jump from the federal network to the local one. Boeing is an American multinational corporation that designs, manufactures and sells aircrafts, rockets and satellites and they make a stunning leap into the mobile phone world with this new device.

By: Priyansh singh



3 Black Phone

One of the more interesting devices here at Mobile World Congress is Black phone: a privacy first handset being developed by the startup Geeksphone, in collaboration security company Silent Circle using a "security-oriented" Android build called PrivatOS.
The hardware is being built by Geeksphone whereas the software has been taken up by Silent Circle. The current specs are a 2GHz quad-core SOC, a 4.7-inch HD IPS screen, 2GB of RAM, 16GB of storag -e, 8MP rear and 1.3MP front cameras. It goes on sale at $629. Geeksphone also said that the final specs of the product may change, and change for good.

Feature	Android Default	PrivatOS Enhancement
Search	Trackable	Anonymous
Bundled Apps	Many, with privacy disabled by default	Few, and all privacy-enabled
Wi-Fi usage	Always on for geolocation and user tracking	Smart disabling of all Wi-Fi except trusted hotspots
App permissions	All-or-nothing	Fine-grained control in a single interface
Communications tools	Traceable dialer, SMS, MMS, browser. Vulnerable to spoofed cell networks and Wi-Fi.	Private calls, texting, video chat, file exchange up to 100MB, browsing, and conference calls
Updates	Supplied infrequently after carrier blessing	Frequent secure updates from Blackphone directly
Remote Wipe & Anti Theft	Requires use of centralized cloud account	Anonymous
Business Model	Personal data mining for tracking and marketing	Delivering privacy as a premium, valued feature

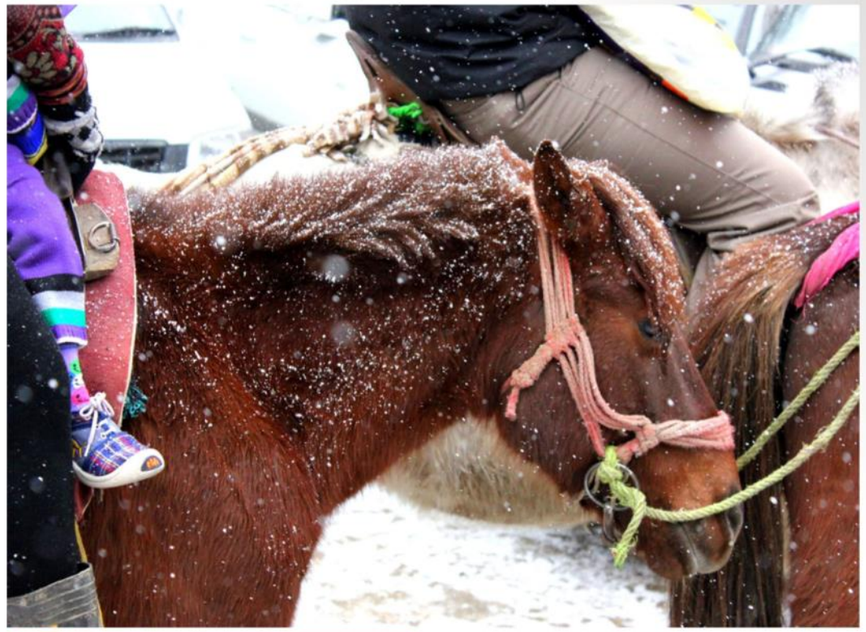
POLL

1. **Do you think Microsoft is going to be bankrupt soon?**
2. **What all products you like?**
3. **What products do you think the company should chuck?**

Mail your responses at priyanshsingh@outlook.com

PHOTO Contest

Winners get 150 Cogni money and runners up 100 for the photo contest



Winner
Dhwani Sadaphal
EEE 3rd year

Runners up
Anshul Sharma and Aman Garg
EEE 2nd Year

Quiz yourself

Q1. In January 2014, the Reserve Bank Of India has decided to withdraw all currency notes issued prior to which year?

A] 2000 B]2003
C]2005 D]2007

Q2. The Prime Minister of which nation attended India's Republic Day celebration of 2014 as its Chief Guest?

A]Germany B]Japan
C]S.Korea D]Holland

Q3. The epic of "Ramayana" is based in which epoch or yug?

A] Satya-yug B]Treta-yug
C] Dwapar-yug D]Kal-yug

Q4. Who has been awarded France's highest honour, the Legion d'honneur of 2014?

A] Danielle Steel B] Sidney Sheldon
C] Nora Roberts D] James Patterson

Q5. Which state became the first state in India to achieve 100 percent sanitation coverage?

A] Kerala B] Meghalaya
C] Sikkim D] Andhra Pradesh

Please send you entries at: cognizance@bvpieee.org

BVPIEEE VOLUNTEER OF THE MONTH

Sumedha Arya, IT 2nd year, is BVPIEEE's Volunteer of the Month! Cognizance's very own Editor and columnist, Sumedha also volunteered at Dr. Vikram Sarabhai Rotating Shield Quiz '14 besides working for the Publicity Team.

COGNIZANCE TEAM

Aishwarya Kaul
Editor in Chief
Columnist

Dharvi Verma
Editor and Documentation
Columnist

Sumedha Arya
Editor and Documentation
Columnist

Neeraj Kumar
Web Admin

Anuj Aggarwal
Prof Reading
Columnist

Aman Garg
Publicity Team
Head

Anshul Sharma
Publicity Team
Columnist

Arjun Kumar
Head Designer

Shreshta Jain
Columnist
Proof Reading
Designer

Shivam Bindal
Columnist

Priyansh Singh
Columnist

Payal Mangla
Columnist

Arunima Sharma
Columnist

Himadri Singh
Columnist

Shefali Garg
Designer

Aashima Jindal
Designer