

A BI-MONTHLY BONANZA

DEC'15 - JAN'16



**155UE** 58

ALPHA 1S ROBOT



LIVESCRIBE ECHO SMARTPEN

KONGU ARTS AND SCIENCE COLLÈGE



( AUTONOMOUS )

NANJANAPURAM, ERODE

DEPARTMENT OF COMPUTER SCIENCE (UG)

CYBER CREWS ASSOCIATION



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## 58 th ISSUE In this New Year 2016

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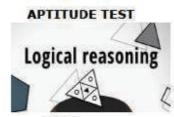
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Contents	
1. Interview Pedia	1
2. Alpha 1 s Humanoid Robot	3
3. Livescribe Echo Smartpen	5
4. Blackberry plans IoT push at CES	7
5. Google CEO Sundar Pichai touts India as key testing ground for new products	9
6. Microsoft Pledges \$1-Billion Cloud Computing Donation	11
7. Facebook Adds Android Support for Anonymity Service tor 8. Intel Authenticate Identity	)13
Protection /	15/
9. Sony Playstations VR Headset Price Tipped by Online Retailsers	17
10. Review Box	/ 19
11. Learn a Tool	21
12. Famous and Fovorite	23/
13. IT Vita	24
14. Mind Punch	25
15. Solutions	27



#### INTERVIEW PEDIA







PART- 6

In the Last issue we have started Logical reasoning. We are going to still continue on the same. Here are some more tips....

Logical reasoning has two broad categories: Verbal and Non Verbal.

#### Verbal Logical Reasoning Questions

Here are three examples of verbal logical reasoning questions.

- a. If there are no dancers that aren't slim and no singers that aren't dancers, then which statements are always true?
- There is not one slim person that isn't a dancer
- 2. All singers are slim
- Anybody slim is also a singer
- 4. None of the above

Answer:



The tricky part of this question is that it is phrased negatively. This means that we have to identify the nature of each group initially and establish the relationship between the groups. Once the illustration is made, the relationship between the groups becomes clearer. The only true statement is that all singers are slim.

#### The answer is 'All singers are slim'.

- b. Dan is Joshua's son and Guy's brother. Margaret is Guy's mother and Judy's daughter. Which of the statements below are true?
- Judy is Dan's mother-in-law
- 2. Margaret is Dan's mother
- Judy is Joshua's grandmother
- 4. None of the above



#### Answer:

Dan and Guy are siblings, (not half-brothers or step-brothers) and therefore Margaret, who is Guy's mother, is also Dan's mother.

#### The answer is 'Margaret is Dan's mother'.

- c. This is data supplied by the cabbage growers union report for 2007: 80% of cabbages collected were heavy (over 0.5 kg), 10% of cabbages were green, 60% were red and 50% were big (having a diameter of over 10 cm). Which of the following statements must be false?
- All red cabbages weren't big
- 30% of red cabbages were big
- There were no cabbages that were both green and big
- 4. Half of the cabbages were small

#### Answer:

You have to check the authenticity of each statement.

- All red cabbages weren't big. We know that 60% of cabbages picked were red and only 50% were big, therefore, there is an overlap (60% + 50% = 110% > 100%). The statement must be false, so this is the correct answer. There's no real need to check the rest of the statements, but we've provided an explanation in any case.
- 2. 30% of red cabbages were big. We know that 60% of cabbages were red and 50% were big, so there must be an overlap of at least 10% (60% + 50% = 110% > 100%). However, we don't know the extent of the overlap. This statement may be true, but we don't know for sure.
- 3. There were no cabbages that were both green and big. We know that 10% of cabbages were green and 50% were big, so there may not be an overlap between the two (10% + 50% = 60% < 100%). The statement can't be ruled out.</p>
- 4. Half of the cabbages were small. We know that 50% (i.e. one half) of the cabbages are big, so the other half may be small. This would make this statement true.

#### The answer is 'All red cabbages weren't big'.

#### Non Verbal Logical Reasoning Tests

Logical reasoning tests in the narrow sense of employers' online assessments usually consist of abstract, diagrammatic or inductive reasoning tests. Employers often use these tests as part of their online selection process. It would be easier to describe logical tests as non-verbal reasoning tests, since they do not rely on verbal or numerical information but rather on shape sequences and the logical pattern they represent.

Meet you all in the next issue......All the best!

Staff-Editor



Whatsapp to stop charging \$1 subscription free





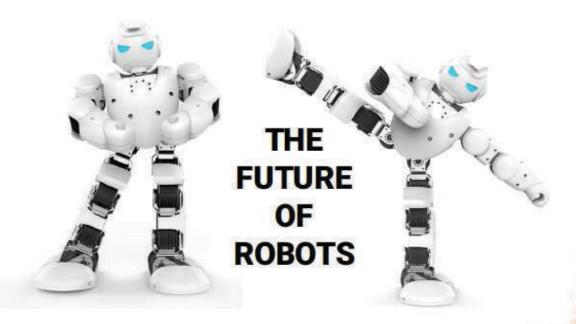
Robots in our homes is something we would expect to see in the future but we didn't expect to see one as intelligent as Alpha in our homes today! The Alpha 1S Robot from UBTech is a completely customizable futuristic robot for you to play with - you create the programs and he will perform them for you.

He comes with 16 degrees of freedom which is the equivalent of our joints, so he is incredibly flexible! He can sing, dance and read stories, but more impressively he can even do Tai Chi, somersaults, play football with his friends and one handed press ups - which is more than a lot of us humans can do. By downloading the free app (for iOS and Android) you can access Alpha's brain and command him to do anything you like right before your eyes. The easy to use app control pad is customizable too, so you can have your favorite performances from Alpha at your fingertips

No respectable robot from the future would be complete without multi-colored LEDs and thankfully Alpha has plenty, so if you thought he looked good in the day wait till you see him in the dark! You can adjust his volume, and LED lights through the app and all of the preprogramed actions are right there ready for your entertainment.

For the budding programmers out there, the Alpha Robot is the perfect starting point. The free Visible Editing Software program will let you set up your own programs for him to perform. So you can create a whole routine or just a simple wave with ease.

Once you have finished your routines you can save them and put on a robot show for your friends and family to enjoy. If all that wasn't enough, Alpha even works as an alarm clock. That's right, you can now have your very own hi-tech robotic wake up call!





Apple acquires emotion detecting AI startup.





Once the application is launched, smart pen users write down any word or term they want to look up and then read the definition on the smartpen's OLED display. They can then easily read the abstracts for their search term and even follow the links within the entries to drill deeper into a topic and its related keywords.

While the launch of the Wikipedia application is a major step in Livescribe's continued efforts to increase the power of its smartpen platform, it is also an important milestone in positioning the company and its services as a solution provider for managing information. Based on ARM9 processor and proprietary programming, Livescribe's smartpens can handle and make available databases and other contents of up to two million data sets as of today. Dictionaries, encyclopedias and specialized lexicons, e.g. for medicine, law or foreign languages, can now be provided on pen and paper with the Pulse and Echo smartpens.

Livescribe has always strived to enhance communication and the way information is managed and accessed", comments Anne Marie Bourcier, EMEA Marketing Director, and Livescribe. "The new Wikipedia applications further enhance the existing set of features of the Livescribe smartpens and easily leverage the power of Wikipedia on pen and paper." Using the brand new application, owners of the Pulse and Echo smartpens can easily access the knowledge and information available.





#### Record and Play Back:

 Record everything you write, hear or say. Replay your meetings or lectures simply by tapping on your notes.

#### Save, Search and Organize:

 Transfer your notes and audio to your computer via USB cable and Echo Desktop will save everything for fast, easy access to what's important.

#### Send and Share:

 Easily share your notes and audio from Echo Desktop as a standard PDF or audio files.

World's 1st eye tracking – enabled laptop by msi.





The company is planning to push its QNX real-time operating system for the Internet of Things at CES, the giant consumer electronics show held in Las Vegas each January, and hopes it will be a break-out success.

BlackBerry acquired QNX in 2010, using it first in its ill-fated Playbook tablet before going on to build the BlackBerry 10 OS on top of it. The software also shows up in many car entertainment systems.

Chen carefully did not say that BlackBerry will itself be introducing any new connected things in Vegas, merely that it will highlight its initiatives in IoT, and that there will be new technology demonstrations and product roll-outs.

The company saw 43% organic growth in its software licensing revenue in its third fiscal quarter, ended Nov. 28, Chen said, hinting that much of this came from QNX.

BlackBerry has been busy licensing the software to other manufacturers, which are choosing it for their own hardware, including new in-car applications, some in self-driving cars, Chen said. As for BlackBerry's own struggling hardware business, that could yet be saved by the company's latest smartphone, the Android-based Priv.

The Priv went on sale in the U.S. and Canada on Nov. 4 and was available in four countries by the end of the company's fiscal quarter just a few weeks later. Chen expects to be selling it in a total of 31 countries by the end of February. Chen is focusing on growing phone sales profitably, and believes the hardware business can reach break-even in the current fiscal quarter, or perhaps the following one. The Priv's modest contribution to that profitability may be short-lived: While it's selling at a higher price than other BlackBerry products, Chen expects to have to cut that price significantly when competitors show off their latest phones at the Mobile World Congress trade show in Barcelona in February.





Microsoft to end support for older IE versions.





New Google leader Sundar Pichai pledged on Wednesday to use India as a testing ground for its products as the US tech giant targets hundreds of millions of consumers in the developing world set to move online in the next few years.

With internet penetration already topping more than 90 percent in many developed markets, Google is increasingly betting on large developing countries like India as a future source of growth. The company does not disclose how much it has invested in India.

Google expects more than 500 million Indians to be online by 2018, up from around 300 million today.

But Pichai said that with most new users accessing the internet via cheap smart phones instead of desktops, poor mobile connectivity is forcing the company to adapt how it structures and sells its software.

Google's CEO said the company would train two million Indian developers for its Android operating system by 2019, promote internet use among rural women in thousands of villages, and expand its campus in Hyderabad to get more people online.



It's about making sure that as the next one billion come online, they have access, where he is also scheduled to meet Prime Minister Narendra Modi. There are likely to be more users of Google's Android software in India than in the United States next year, Google said in a statement.

Pichai cited user-generated maps, as well as a version of YouTube that allows consumers with limited internet access to store videos offline, as two recent examples of products developed in India that have since been rolled out to other countries.

Google is also working with Indian Railways to bring wireless internet service to 100 train stations, with Mumbai Central the first to go online in January. It's also working on increasing the number of local languages available on its virtual keyboard to target non-English speakers.





Smart thermometer tells temperature in 2 seconds.





Microsoft said Tuesday it will put a billion dollars' worth of cloud computing power in the hands of non-profit groups and university researchers free of charge.

A philanthropic arm of the US software colossus will make the donation during the coming three years to 70,000 non-profit groups and researchers, chief executive Satya Nadella said while attending the World Economic Forum in Davos, Switzerland.

Cloud computing lets people use the Internet to tap into processing or data storage capacity at huge data centers.

"Among the questions being asked in Davos are these: If cloud computing is one of the most important transformations of our time, how do we ensure that its benefits are universally accessible?" Nadella said in an online post.



Microsoft open sources engine behind its 'edge'.

11

"What if only wealthy societies have access to the data, intelligence, analytics and insights that come from the power of mobile and cloud computing?"

The philanthropic move comes as Microsoft continues adapting to a trend of people economically renting software as services in the Internet cloud instead of buying and installing programs on their machines.



"Last fall, world leaders at the United Nations adopted 17 sustainable development goals to tackle some of the toughest global problems by 2030, including poverty, hunger, health and education," Nadella said.

"A careful read of those goals reveals the central role that data and cloud computing must play for analysis and action." Microsoft chief legal counsel Brad Smith said the massive computing power available in the cloud can help researchers mine insights and secrets from data.



# facebook

Adds Android App Support for Anonymity Service Tor

Users of Facebook Inc's Android app can now privately browse the world's largest social network through the anonymity service Tor, the company said on Tuesday.

The feature expands a collaboration that allowed Facebook users to directly access its site via Tor's browser on personal computers. It comes as policymakers and technology companies debate whether digital privacy should be curbed to help regulators more easily thwart hackers.

Kate Krauss, a spokeswoman for the Tor Project, a group of developers that oversees development of the anonymity software, said Android support could help expand Tor due to Facebook's large following. Facebook has more than 1.5 billion monthly active users.

"Everybody in the world needs more privacy online and almost everybody is on Facebook, Krauss said via Signal, an encrypted messaging service. "This will allow people to choose whether to share their location or not. For some people, this is convenience. For others it is lifesaving."



Tor has no plans to support Facebook's mobile app for Apple Inc's iPhone, Krauss said.

Facebook said in a blog post that a "sizeable community" has grown around its feature launched in 2014, which allowed users to access its site via Tor on PCs. That has prompted calls for additional Tor support, it added.

Tor is used to hide computer IP addresses, typically by concealing the identity of an Internet user. Its popularity has grown following revelations of US spying on the Internet by former National Security Agency contractor Edward Snowden in 2013.



Tor was funded by the US government as a communications tool to be used by dissidents in oppressive countries, but it has increasingly drawn ire from U.S. spies who are frustrated by how difficult it is to monitor the platform's users.

Using Tor on Android requires a download of Orbot, an app that is used to connect to Tor, and updating Facebook's app settings.

Helpchart app launches pollution meter' feature.



## INTEL® AUTHENTICATE

**Identity Protection** 



Intel's Sixth-Gen Core vPro Processors Enable Multi-Factor Authentication

Intel has announced the availability of the business versions of its sixth-generation Core vPro processors, with an interesting new multi-factor authentication mechanism built into the hardware. Better known by its codename 'Skylake', the sixth-gen family of Core processors has been launched in phases, starting with models for consumer desktops and notebooks last year.

Intel's vPro processor variants have specific features for improved security and manageability in corporate environments. The new lineup includes a feature called Intel Authenticate, which aims to curb the threat of data leaks which happen because of sophisticated malware or even stolen or spoofed credentials. Authenticate bypasses the operating system and software layers, and allows for up to three-factor ID verification which can involve a combination of passwords and PINs, biometric parameters, physical tokens, and location.



JAQ Device to charge phones using water.

15

The idea is to combine various forms of authentication, making users validate something they know, something they have, and something they are. Passwords are an example of things users can prove they know; tokens such as a smartphone are things users can prove they have; and biometrics such as fingerprints and iris patterns prove who they are. Many services today employ two-factor authentication which relies on the former two concepts.



Biometric match patterns and signed certificates are encrypted and stored in the CPU itself, where malware typically cannot discover it. All sixth-gen Core vPro processors will feature Intel Authenticate, but it is currently available only as a preview for IT administrators to evaluate. Businesses will be able to define how much security they need and apply it to the PCs themselves as well as corporate services such as servers and VPN access.

Large companies typically refresh their PCs every few years, with the average time between upgrade cycles now increased to five years. Intel says its newest processors will work 2.5X faster with 30X better integrated graphics, while enabling 3X longer battery life compared to five-year-old models. Laptops can also be far Thinner and lighter than those of a similar age. Intel hopes these potential productivity increases and the cost of maintaining older machines will prompt companies to replace older PCs, in addition to the appeal of better security and manageability.



New glove can feel distant underwater objects.





Sony is still beating around the bush when it comes to the price tag of its PlayStation VR virtual reality headset. Although the Japanese tech giant has not revealed the exact price of the device, it has now been priced on three different Swiss online retail websites. Interestingly, the prices on the three online retailer websites differ from each other.

The virtual reality headset has been listed on Brack.ch, Techmania.ch, and Internet.ch websites priced between CHF 499 - CHF 568 (roughly Rs. 33,900 to Rs. 38,600), spotted a user on the NeoGAF forum. Since the gap between the lowest and highest price is wide, it is now anyone's guess as to what the final price of the Sony PlayStation VR will be.



Raymond wang 17 years old invents device to check germs on planes cabin.

17

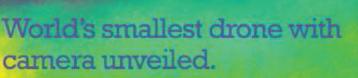
The Sony Computer Entertainment Chief Executive Officer Andrew House at the last year's Tokyo Game Show said the wearable device would cost the same as the new gaming platform, which is \$400 (Rs. 25,350) for US customers, but did not reveal the exact price. Considering that the PlayStation 4 (PS4) had a maximum retail price of Rs. 39,990 at launch, users can expect it to have the same price in India.



The device was also briefly listed on Amazon Canada for CAD 1,125.35 (around Rs. 53,330) earlier this month. However, Sony was quick to address the issue and said that, "This was an error by Amazon, we haven't announced price for PlayStation VR."

Talking about its competitors, the HTC Vive virtual reality headset was recently tipped with a price tag of hefty \$1,500 (roughly Rs. 1, 00,200). This is also nearly \$1,000 more than that the \$599 (roughly Rs. 40,000) price tag of its rival - Oculus Rift.

The virtual reality and augmented segment has lately seen a lot of new companies entering the space. Aside from Sony with PlayStation VR, Oculus VR with the Rift headset, and Razer with its OSVR platform, Microsoft threw its hat into the ring announcing its HoloLens, and recently giving more details about it.







# Review Box Android Studio 1.5

Android Studio received an excellent update in version 1.5. Learn more about the new features, which include vector assets, design tools, and more.

#### Design Tools

Lots of new design tools have been added to Android Studio 1.5, starting with the new Vector Assets Studio.

#### Vector Assets

Vector Drawables for image assets or quality was one of the new features that appeared in Android 5.0 Lollipop. A key advantage of this feature, instead of raster type images is that it helps reduce the number of density dependent drawables you need to hold, since vector drawables can scale good to various screen densities. Google has made the process of importing SVG (Scalable Vector Graphics) images or Material icons much easier with this new version.







#### Theme Editor

This feature examines the styles in a project and shows visual samples of what controls should look like on a live interface.



Skype to allow group video calls on mobile.

19

Android app developers can make changes to different attributes instantly via the theme editor as well as can see them updated in the live preview. Only colors with color state-lists are supported for the initial release, but plenty of other features will be coming in the near future releases.

#### **Project Templates**

This feature let the mobile app developers use various templates while starting a new project, it has options with different activities and fragments preconfigured for particular features, Developer can simply choose any of the templates listed below from New Project Wizard:

- · Add No Activity &Blank Activity
- Empty Activity & Full Screen Activity
- Google Admob Ads Activity & Google Maps Activity
- . Login Activity & Master/Detail Flow
- Navigation Drawer Activity & Scrolling Activity
- Settings Activity & Tabbed Activity

To help with the visual design of your mobile apps, Google has added updated app templates to include the Android Design Support Library and the AppCompat Support library.

Performance Monitors (GPU and Networking)

**GPU Rendering Monitor** 

Apart from the usual CPU (central processing unit ) and memory monitoring, you can examine how an application uses the GPU (graphics processing units) over time or the transmit/receive rates when using the network. You need to turn on monitoring for your Android hardware device or emulator under Setting > Developer Options > Profile GPU rendering in order to enable GPU monitoring.

#### Network Monitor

Now, you can monitor the network usage of your app with Android Studio 1.5. You can track the transmit / receive rates of your app over time with the monitor. The network profiler measures usage by processes to find when and how much data is traveling over the air due to your app.

Developer Services

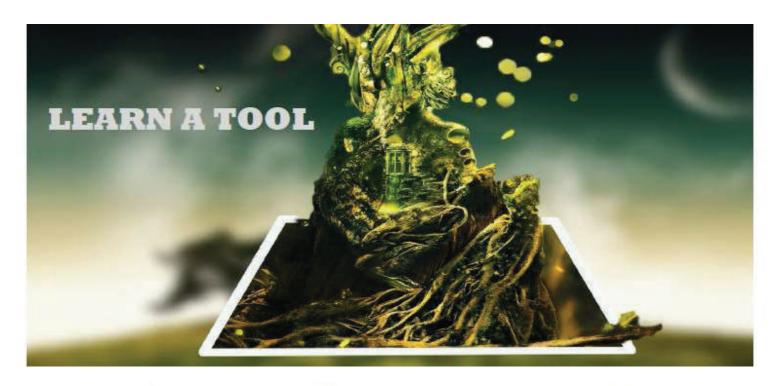
Firebase

With Android Studio 1.5, Integrating Firebase database is even easier and Firebase includes data storage, static hosting, user authentication and more. It is a platform for building cloud dependent apps and a Firebase database is stored as JSON (The JavaScript Object Notation) and synchronized in real time for every connected client, through the cloud. Go to File > Project Structure > Cloud to access this feature.



Infant cries translator app that decodes babies cry sounds developed.





Steps to create a 3d out of frame effect in a picture using Photoshop cs6

- ✓ First, select file ->open the image do you wish to use for the 3d effect in the layer window double click on the background and click ok to unlock this layer.
- ✓ We need to duplicate the layer by pressing ctrl+j or right click on the layer to select duplicate layer.
- ✓ Then select the rectangular marquee tool and select the part of the
  picture with is going to base for the effect then right click on it select
  transform selection then again right click and select the perspective
  after that drag the lower right bottom for a small distance and the lower
  left bottom automatically pull itself. Now pull the upper right to a small
  left or inside a bit. That makes the picture stand like on the table. After

that click





- ✓ After that add layer Mask for that particular layer.
- ✓ Now create a new layer and name it as frame and hold ctrl + click the layer mask we created and then click the new frame layer make sure that the new layer and the layer mask is selected.



Panasonic unveils transparent TV.

21

✓ Then go to edit->stoke, in the stoke dialog box set width to 15px and click center and make sure that white color is selected and set opacity to 100% and then click ok then press ctrl + d to deselect.





- ✓ Select the duplicate layer now we start select the image that we want to pop out of the picture. We can reduce the opacity of the frame to see through the picture select ⇒ quick selection tool from tool box.
- ✓ To select the image that you want to give 3d effect or pop out effect select particular object in the picture that you want to pop out don't select the background of the picture.
- ✓ We can fix the edge of the picture using refine edge option after the selection of refine edge just go through the edges of the image make sure that the fore ground color is white then click ok.
- ✓ Now with that done we need to delete the background for that right click select inverse selection and press delete and press ctrl + d for deselect the selected area.
- After that add an image for the background and drag it to make it fit. Then click ok then right click on that layer choose the rasterize layer. Now go to filter and select blur->Gaussian blur and make radius around 65px.
- ✓ If you found any mistake in selection, create a layer mask and select black color and select brush and brush the edge of the picture. Select the frame layer select the serase the upper side of the frame.
- ✓ And finally using the above steps we have created a pop out or 3d effect in a picture using Photoshop cs6. Output:



California startup develops crime-fighting robot.





Natarajan Chandrasekaran is an Indian business executive who is the CEO and managing director of Tata Consultancy Services. He was born in 1963. Chandra took over as CEO on October 6, 2009 prior to which he was COO and Executive Director of TCS. He is one of the youngest CEOs of the Tata Group. As of 2015, his income was 21.28 crore per annum. His salary for the fiscal year ending March 2014 at 18.68 crores was 60% more than the previous year. Nyenrode Business University, Netherlands conferred Chandra with Honorary doctorate for his significant contributions toward business and society.

#### Awards and recognition

- . NDTV Business Leader of the Year IT, 2012
- · Top 25 most influential consultants in the world, 2006
- AIMA Business Leader award for 2011
- Distinguished alumni award of NIT Trichy, 2013



Microsoft shuts down windows 8 OS.



### IT VITA

- 1. Who is the world's first actor to be invited at Google and Twitter headquarters?
- 2. What is the name of first update for Windows 10?
- 3. When was the first text message or SMS sent?
- 4. Which is the popular mobile application developed by Kevin Systrom and Mike Krieger called?
- 5. How much is the character limit for a posting on Twitter?
- 6. What is "Me at the Zoo" famous for?
- 7. Farmville is associated with which social media website?
- 8. What does the hash sign (#) mean on twitter?
- 9. What type of memory does a pen drive have?
- 10. Who developed the APT (automatically programmable tool) a high-level programming tool for CAD and manufacturing besides 3D modeling?
- 11. Who is considered as "the father of fiber optics"?
- 12. Which is the latest version of Android?
- 13. Name the application launched for Windows 10 Mobile Phones by Microsoft.
- 14. Name the new Chief Operating Officer (COO) of Apple.
- 15. Which e-commerce website became the topmost website in India?



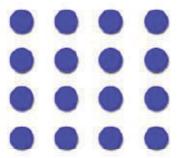
Flipkart wins website of the year india 2015.







 Using six contiguous straight lines, connect all of the sixteen circles shown below.



- 2. Imagine you are in a dark room. How do you get out?
- 3. What does this rebus represent?

$$\mathbf{r}$$
-T+R=?

What does this message say?GTYORJOTEOUIABGT

Hint:

Count the letters and try splitting the letters up into groups.



Mahindra unveils cloud connected e-scooter.

5. The below is a number puzzle. It should be read left to right, top to bottom.

11

21

1211

111221

??????

???????

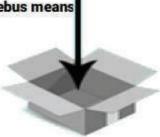
Question 1: What is the next two rows of numbers?

Question 2: How was this reached?

6. How is it possible to trace this design in one continuous movement without crossing a line on the way?



- 7. When is 99 more than 100?
- 8. What does this image rebus means



- 9. Decode these riddles
  - 1. 26 L of the A
  - 2.7 D of the W
  - 3, 1000 Y in a M
- 10. Tear one off and scratch my head what was red is black instead.



Samsung to unveil smart belt at consumer expo.



### SOLUTIONS

#### MIND PUNCH



2. Car

Explanation: cat - T + R = cat.

3. Stop imagining.

4. "Great Job You Got It".

GTYO

RJOT

E OUI

ABGT

Then read vertically column by column.

5. 312211

13112221

"one one" (1 1)

"two one's"(2 1)

"one two, one one" (1 2 11)

6.



- A microwave. Generally when you run a microwave for '99' it runs for 1 minute 39 seconds. '100' run for 1 minute.
- 8. Inbox
- 9. 1.26 Letters of the Alphabet.
  - 2.7 days of the Week
  - 3. 1000 years in a millennium.

10. A matchstick.

#### ITVITA

- 1. Shahrukh Khan.
- 2. Threshold 2.
- 3. On December 3, 1992.
- 4. Instagram.
- 5.140.
- First uploaded video on YouTube.
- 7. Face book.
- 8. Identifies messages on specific topic.
- 9. Flash Memory.
- 10. Douglas T. Ross.
- Narander Singh Kapany.
- 12. Android Marshmallow.
- 13. Group Me.
- 14. Jeff Williams.
- 15. Amazon. In.





### Sense of Gratitude

The Editorial Board
expresses its sincere
Gratitude to all those who
are responsible, either by
being on the stage or
behind the screen for the
successful launch of the
Magazine...

