

VIBRANCE

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the month of June 7

Quiz Time8

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Round.....9



Institute of Technology & Science
Mohan Nagar, Ghaziabad



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**Supercomputers to study human brain**

Human brain is the most complex machine and the most mysterious too. To study the brain effectively – on what is known as one of the most ambitious neuroscience projects in the world. The “Blue Brain Project” – IBM, EPFL, and ETH Zurich have collaborated to build a hybrid supercomputer memory. This is a step closer to simulating the complete human brain, which is a hugely ambitious task that will require the most powerful supercomputers ever built. So-called exascale computers will be at least a hundred times more powerful than any we have today.

Building these computers requires a lot of new software and hardware and ‘hybrid supercomputer memory’ is one essential part of the recipe’, explains Walker, senior research associate, Blue Brain Project. The Blue Brain Project is currently simulating small parts of the rat brain. The present memory technology is enough for this, but not for long. As the project moves towards simulating the whole rat brain and ultimately the whole human brain- they are going to need a lot more memory than they have at a moment.

Brain diseases have become an immense in US countries; researchers are developing different projects to read the brain of a human being so that many diseases can be cured before they are worsened.

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**5 ways to protect your personal data from spying****Encrypt your emails**

Emails sent across the web are like postcards. In some cases, they're readable by anyone standing between you and its recipient. Experts recommend encryption, which scrambles messages in transit, so they're unreadable to anyone trying to intercept them. Techniques vary, but a popular one is called PGP, short for "Pretty Good Privacy." PGP is effective enough that the U.S. government tried to block its export in the mid-1990s, arguing that it was so powerful it should be classed as a weapon.

Use TOR

Like emails, your travels around the Internet can easily be tracked by anyone standing between you and the site you're trying to reach. TOR, short for "The Onion Router," helps make your traffic anonymous by bouncing it through a network of routers before spitting it back out on the other side. Each trip through a router provides another layer of protection, thus the onion reference.

Ditch the phone

Your everyday cellphone has all kinds of privacy problems. In general, proprietary software, lousy encryption, hard-to-delete data and other security issues make a cellphone a bad bet for storing information you'd rather not share. An even bigger issue is that cellphones almost always follow their owners around, carefully logging the location of every call, something which could effectively give governments a daily digest of your everyday life. Security researcher Jacob Appelbaum has described cellphones as tracking devices that also happen to make phone calls. If you're not happy with the idea of an intelligence agency following your footsteps across town, leave the phone at home.

Cut up your credit cards

The Wall Street Journal says the NSA is monitoring American credit card records in addition to phone calls. Some cybercriminals can use the same methods. So stick to cash, or, if you're more adventurous, use electronic currencies to move your money around if you want total privacy.

Steer clear of malicious software

If they can't track it, record it, or intercept it, an increasing number of spies aren't shy about hacking their way in to steal your data outright.

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Top IT Billionaires of India



Azim Premji

Personal wealth: \$12.3 billion

Company: Wipro

Azim Premji has led Wipro since the late 1960's. Then a \$2 million hydrogenated cooking fat company, Wipro Limited is today a \$7 billion revenue IT, BPO and R&D Services organization with presence in over 50 countries.



Shiv Nadar

Personal wealth: \$5.7 billion

Company: HCL

Shiv Nadar was born and raised in mofussil Tamil Nadu, in an India awakening to its first Prime Minister, Jawaharlal Nehru's "Tryst with Destiny". Nadar was part of the elite DCM management trainee system and left DCM in 1976, along with seven others, to create HCL in a Delhi barsati.



Sunil Mittal

Personal wealth: \$5.7 billion

Company: Bharti Airtel

Sunil Bharti Mittal, the founder, chairman and group CEO of Bharti Enterprises, started his career at 18 after graduating from Punjab University in India in 1976 and founded bharti. Today, at 52, he heads a successful enterprise which employs over 30,000 people and has market capitalization of approximately US\$ 25 billion.



NR Narayana Murthy

Personal wealth: \$1.4 billion

Company: Infosys

NR Narayana Murthy founded Infosys in 1981, served as the CEO during 1981-2002, and as the chairman and chief mentor during 1981-2011. He is currently the chairman emeritus of Infosys.



Bhupendra Kumar Modi

Personal wealth: \$1 billion

Company: Spice Group

Bhupendra Kumar Modi is the global chairman of Spice Group and was appointed to the board on April 24, 2010 as non-executive director and chairman

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PARAM YUVA II of India became one of the fastest supercomputers in the world

Two of the four supercomputers in the country that feature in the top 100 in the list of 500 fastest supercomputers in the world, are from Pune. While the Indian Institute of Tropical Meteorology (IITM) supercomputer stands 36th in the list, ParamYuva II, developed by the Centre for Development of Advanced computing (C-DAC) has bagged the 69th position.

The IITM supercomputer is yet to be installed while the Param Yuva II became operational from February 8 this year.

The list of top 500 supercomputers in the world was announced during the launch of the opening session of the International Supercomputing Conference in Leipzig, Germany.

The Param Yuva II has a capacity of 524 teraflops and within three weeks of launching it was already running with a load of 70% of its capacity. Precise weather forecasting, faster tapping of natural resources in the sea and designing of customised drugs for individuals are some of the applications possible using Param Yuva II. It also promises to be energy efficient with 35% reduction in energy consumption as compared to other supercomputers.



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Newly Launched Product & Applications



Google added **Google Play Movies** features to its Google Play India Page which allows you to download or rent movies. Recently Google also has added Google Books, Google Nexus 7 Store to its Google Play in India. The Google play movies were simultaneously launched in India and Mexico. The outstanding feature of Google Play Movies is that it allows users to buy and stream popular films and television shows which can be downloaded in the high definition (HD) or standard versions, depending on compatibility of the device.

The Google Movies play store has some great collection of English and Hindi and English movies like The amazing Spiderman, Ted, The Bourne legacy, Total Recall and Indian movies like Ek tha Tiger, Hum Tum, Dilwale Dulhania Le Jayenge. One can also watch a movie on rent in Google Play Movies by paying an amount 100 rupees and can buy a movie for about 200 Rupees. Rent and purchase amount of a movie differs from one to other.

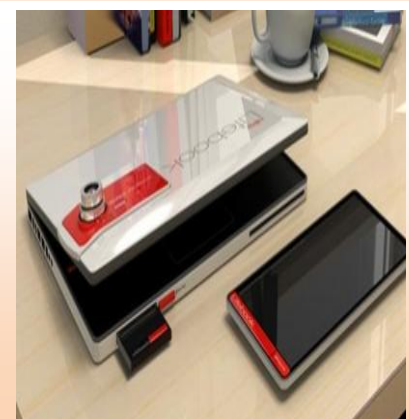


The Hiroko

It is expected that Massachusetts Institute of Technology (MIT) will introduce a new folding car Hiroko in United States within current year. Most interesting feature of this folding car is that the windscreen is used as door so you can park it without hesitation. Furthermore, three Hiroko cars will be parked on a space taken by one normal car. With 'robotic wheels'; Hiroko has a range of 75 miles per charge.

Fujitsu Lifebook 2013

Fujitsu Lifebook 2013 is a device that will consist of a Smartphone, a tablet and a camera. Each of these will run on same operating system, as all of them will be loaded with separate CPU. Moreover, each element would be used individually as they could be separated and divided easily. Although it is unsure, whether this product will be able to arrive in the market this year but eyes are looking forward on Fujitsu.



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AICTE sponsored two-week FDP on ETRA-3G at I.T.S, Mohan Nagar, Ghaziabad

A two-week long AICTE Sponsored Faculty Development Programme on “Emerging Trends & Research Aspects in 3G Networks & Wireless Communications” organized by Department of IT at I.T.S, Mohan Nagar, Ghaziabad was concluded on 11th June, 2013. The coordinators of the event were Prof. K.P.Singh and Prof. Rajeev Kumar.



Chief Guest Mr. M.K. Seth GM, ALT Center, BSNL Ghaziabad addressing in inaugural session



Mr. Ashish Tayal, AGM, ALT Center, BSNL, Ghaziabad addressing in Session-I



Visit of the participants to the Mobile Labs, 2G & 3G installed by NOKIA & Ericsson of Advanced Level Telecom Training Center at Ghaziabad.



Dr. Karmeshu, Professor & Dean, JNU, New Delhi talked about mathematical foundation of wireless communication



Dr. Dimple Juneja focused on research aspects of Sensor Network and use Mobile Agents on Sensor Networks.



Participants on the concluding day of 2-weeks FDP at ITS, Mohan Nagar, Ghaziabad



Quiz-Time

Word Scramble Game

Try to beat our hard word scramble by solving a range of difficult word problems?

1. EMEERTRUAPT
2. EREMIENXTP
3. EOKSLENT
4. PIEELCS
5. CLNEOIRESTC
6. SURREPSE
7. ONVOTUILE
8. ATEPLHEN
9. ONACMNIMOTUC
10. PERCSOICMO

Hint: E.g. answer for No.1 is TEMPERATURE





Dustin Moskovitz (born May 22, 1984)

He is an American internet entrepreneur who co-founded the social networking website Facebook along with Mark Zuckerberg, Eduardo Saverin, Andrew McCollum and Chris Hughes.

In 2008, he left Facebook to co-found Asana with Justin Rosenstein.

In March 2011, Forbes ranked Moskovitz as the ***world's youngest self-made billionaire on the basis of his 7.6% share in Facebook.***

Answers to the Last issue's QUIZ ROUND

1. C (CD-ROM)
2. C (BELL Laboratories)
3. D (Photoelectric cells)
4. C (Logical Mind)
5. B (POP)
6. B (John McCarthy)

Congratulations!

Winner of last issue Quiz round
Himanshu (MCA 3rd year)

Announcement and Contact Details

VIBRANCE is an E-magazine of Department of I.T, I.T.S, Ghaziabad. We look forward to the contribution from our students, alumni, faculty members and industry experts.

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