Hewlett Packard Enterprise establishes Big Data and Data Analytics Center of Excellence @ NHCE on 24th May 2017

Hewlett Packard Enterprise has signed MoU with New Horizon College of Engineering to offer courses on Big Data and Data Analytics. The Centre of Excellence with state of the technology Lab at New Horizon campus was inaugurated on 24th May 2017. This is the first time in India that HPE has collaborated with an educational Institution for its flagship industrial use Vertica Big Data and Data Analytics product suite. Mr.Haresh Krishna Kumar, Country Manager for Big Data, Hewlett Packard Enterprise said 'how to use different open sources and proprietary tools for integrating them to Vertica for real time analysis and solutions. He also explained HPE Vertica enhances the performance of data with real time inferences, directions etc.

Dr. Mohan Manghnani advised student community to utilize the Big Data technology being offered at New Horizon College of Engineering. He also told all the graduating engineering and Management students will get opportunity to work in different corporates as interns based on their hands on skills on Big Data and data Analytics. "Hewlett packard Enterprise is collaborating with New Horizon to train fresh engineering and MBA graduates who may have the edge over other students because of their hand on exposure to Big Data and Data Analytics tools and techniques" says Dr. Lakshminarayana, Director-Training and Placements at New Horizon College of Engineering.

AviSkAra'17

The MCA Department of New Horizon College of Engineering has organized AviSkAra'17, a One Day conference on 13th of May 2017. The conference was started with devotional song by the student volunteers and was followed by lighting the lamp. Mr.Vivek Jha , SAP Consultant , SAP Bangalore , Chief Guest of the Day inaugurated the Conference and released the soft and hard copy of the Conference Proceedings. He expressed his views regarding the placement and the industrial expectations. He also highlighted about the real time and innovative projects to be done by the students during their tenure of study. Over 165 papers were presented by the 6th Semester MCA students in the conference. Dr.V.Ilango presided over the Conference. Dr.V.Asha and Mr.Thirmoorty Conveners , All the Teaching and Non-Teaching Faculty Members of the MCA Department have made all the arrangements for the successful conduction of thi

SPARK-2017

New Horizon College Marathalli organized an inter-collegiate Management Fest SPARK-2017 on 10th and 11th of March 2017. Around 60 students from various colleges participated in it. The event began with an inaugural ceremony which was held in the New Horizon auditorium at 10.00am on 10th March. KirtanaGanpathi of 4th sem BBA, formally welcomed the dignitaries, faculty members and the participants to the fest. The principal addressed the gathering and declared the event open. The inauguration ended with a dance performance by team Panache. The event coordinators took charge of the smooth execution of the respective events in the respective venues. Each event consisted of 6 different rounds and was judged by internal and external judges.

The event concluded with Mrs. Greeshma Francis presenting a summary of events. She thanked everyone involved partially and completely for the success of the fest Cash prizes, certificates and mementos were given to all the winners of the events. CMS Jain College won the overall trophy for SPARK2017.

PYTHON PROGRAMMING AND ITS APPLICATIONS

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Applications of Python

1. GUI-Based Desktop Applications:

Python has simple syntax, modular architecture, rich text processing tools and the ability to work on multiple operating systems which make it a desirable choice for developing desktop-based applications. There are various GUI toolkits like wxPython, PyQt or PyGtk available which help developers create highly functional Graphical User Interface (GUI). The various applications developed using Python includes:

Image Processing and Graphic Design Applications:

Python has been used to make 2D imaging software such as Inkscape, GIMP, Paint Shop Pro and Scribus. Further, 3D animation packages, like Blender, 3ds Max, Cinema 4D, Houdini, Lightwave and Maya, also use Python in variable proportions.

Scientific and Computational Applications:

The higher speeds, productivity and availability of tools, such as Scientific Python and Numeric Python, have resulted in Python becoming an integral part of applications involved in computation and processing of scientific data. 3D modeling software, such as FreeCAD, and finite element method software, such as Abaqus, are coded in Python.

Games:

Python has various modules, libraries and platforms that support development of games. For example, PySoy is a 3D game engine supporting Python 3, and PyGame provides functionality and a library for game development. There have been numerous games built using Python including Civilization-IV, Disney's Toontown Online, Vega Strike etc.

2. Web Frameworks and Web Applications:

Python has been used to create a variety of web-frameworks including CherryPy, Django, TurboGears, Bottle, Flask etc. These frameworks provide standard libraries and modules which simplify tasks related to content management, interaction with database and interfacing with different internet protocols such as HTTP, SMTP, XML-RPC, FTP and POP. Plone, a content management system; ERP5, an open source ERP which is used in aerospace, apparel and banking; Odoo – a consolidated suite of business applications; and Google App engine are a few of the popular web applications based on Python.

3. Enterprise and Business Applications:

With features that include special libraries, extensibility, scalability and easily readable syntax, Python is a suitable coding language for customizing larger applications. Reddit, which was originally written in Common Lips, was rewritten in Python in 2005. Python also contributed in a large part to functionality in YouTube.

4. Operating Systems:

Python is often an integral part of Linux distributions. For instance, Ubuntu's Ubiquity Installer, and Fedora's and Red Hat Enterprise Linux's Anaconda Installer are written in Python. Gentoo Linux makes use of Python for Portage, its package management system.

5. Language Development:

Python's design and module architecture has influenced development of numerous languages. Boo language uses an object model, syntax and indentation, similar to Python. Further, syntax of languages like Apple's Swift, CoffeeScript, Cobra, and OCaml all share similarity with Python.

6. Prototyping:

Besides being quick and easy to learn, Python also has the open source advantage of being free with the support of a large community. This makes it the preferred choice for prototype development. Further, the agility, extensibility and scalability and ease of refactoring code associated with Python allow faster development from initial prototype.

Campus Placement Tips & Tricks

Good Technical knowledge, that means having a good command over all the basic technical subjects. Here is list of some of the most asked subjects in technical interview for common branches.

Branch	Core Subjects
Computer Science & Engineering	DBMS, OOPs Concept, Data Structures, Operating System, Programming Languages, etc.
Electronics & Telecommunication Engineering	Network Analysis, Digital & Analog Communication Systems, Microprocessors, Control Systems, Electromagnetic Waves etc & Some Basic Programming Concepts.
Mechanical Engineering	Material Engineering, Solid Mechanics, Thermodynamics, MOS, IC Engine, Auto CAD & Basics of Programming Languages.
Information Technology	DBMS, OOPs Concept, Programming languages, Analog Electronics, Data Structures, etc.
Civil Engineering	Strength of Materials, Soil Mechanics, Engineering Surveying, Building materials, Reinforced concrete, Structural Analysis, etc.
Electrical Engineering	Working principle behind all machines, Electrical Machines, Power Systems, Electromagnetic Theory, etc.

"Keep practicing, opt the things, plan them well rather mugging up & stay confident, Prepare a well defined & short resume for the post you are applying & always keep things simple."

Jobs for Engineers

Organization	Post Name - No of Vacancies	Last Date for Apply
Ordnance Factory Medak	Engineering Graduate / Technician (Diploma) Apprenticeship - 100	25/07/2017 (Walk In)
Indian Navy	PC officers in Executive (GS) Branch and SSC officers in Executive and Technical Branches of the Indian Navy under University Entry Scheme (UES)	31/07/2017
Bangalore Metro Rail Corporation Limited (BMRCL)	Various Engineers - 68	31/07/2017
National Highways Authority of India (NHAI)	Deputy Manager (Technical) - 40	31/07/2017
Arunachal Pradesh PSC	Assistant Engineer (Civil) - 38	09/08/2017

Pervasive Computing – A Review

Pervasive computing is an emerging trend associated with embedding microprocessors in day-to-day objects, allowing them to communicate information. It is also known as ubiquitous computing. The terms ubiquitous and pervasive signify "existing everywhere." Pervasive computing systems are totally connected and consistently available. Pervasive computing goes past the arena of desktops so that virtually any device, from apparel to kitchen appliances, could be embedded with microchips, connecting these devices to a boundless network of other gadgets. Pervasive computing creates an unobtrusive environment with full and integrated Internet connectivity. A combination of technologies is used to make pervasive computing possible, such as Internet capabilities, voice recognition, networking, artificial intelligence and wireless computing. Pervasive computing devices make day-to-day computing activities extremely easy to access. Pervasive computing also has a number of prospective applications, which range from home care and health, to geographical tracking and intelligent transport systems. A distinct problem with pervasive computing is that it is not entirely secure. The devices and technologies used in pervasive computing do not lend themselves well to typical data security. This is because they combine in an ad hoc manner within the pervasive network. As such, trust models must be developed in order to ensure tighter security. Other disadvantages of pervasive computing include frequent line connections that are broken, slow connections, very expensive operating costs, host bandwidths that are limited in nature and location-dependent data. All of these instances can impede the security of pervasive computing because they result in multiple system vulnerabilities.

Dr.V.Ilango
Professor & Head – MCA

GLOBAL WARMING

Global warming is a gradual process of earth surface and whole environment including ocean, ice caps etc. The rise in atmospheric temperature has been clearly noticed in the recent year. According to the estimate facts, there is an increase in the earth's average temperature by the 14 degree Fahrenheit. There are many causes for Global warming today. They may be either natural cause of human mode cause. The most important cause of global warming is greenhouse gases which are generated by some natural process as human activities .The increase in the level of greenhouse gases is due to the increase in population, economy and use of energy which has resulted in the greater amount of release of carbon dioxide (CO2) and sculpture dioxide (SO2) other greenhouse gases include methane, nitrous oxide, halo carbon, chlorofluorocarbon (CFCS), chlorine and brurnine compounds. Another cause of global warming is depleture of ozone layer which protects the Earth surface. The effect of global warming has been very clear in the recent years because of increasing sources of global warming. Global warming has led to the melting of many numbers of glaciers.

It has resulted in the huge climatic changes which are making hurricanes more dangerous and powerful. Global warming causes a lot of climate changes in the atmosphere such as increasing summer season, decreasing winter season increasing temperature ,changes in air circulation patterns, jet stream, rain without season ,meeting ice caps, declining ozone layer, occurrence of heavy storms, cyclones, flood, drought and many more. Hence, it is a need of the hour to protect our earth's surface from global warming, many awareness programs and programs to reduce global warming have been run and implemented by the government agencies, business leaders, private sectors, WGO's etc. Though the damages which are already caused cannot be restored but necessary measures can be taken to reduce human cause for global warming. We should try to reduce the emission of greenhouse gases to the atmosphere .Reducing the level of coal and oil burning, use of transportation means, use of electronic device etc., may reduce the global warming to a great level. Natural sources of energy should be utilized and afforestation should be undertaken.

Ms. Sanghamitra Nayak,
2nd Semester MCA

Quantitative Aptitude #17

1. Which one of the following can't be the square of natural number ?
A. 32761
B. 81225
C. 42437
D. 20164
E. None of these
Answer: Option C
Explanation:
The square of a natural number never ends in 7.
∴ 42437 is not the square of a natural number.

2. $(2^2 + 4^2 + 6^2 + ... + 20^2) = ?$
A. 770
B. 1155
C. 1540
D. 385 x 385
Answer: Option C
Explanation:
$(2^2 + 4^2 + 6^2 + ... + 20^2) = (1 \times 2)^2 + (2 \times 2)^2 + (2 \times 3)^2 + ... + (2 \times 10)^2$
$= (2^2 \times 1^2) + (2^2 \times 2^2) + (2^2 \times 3^2) + ... + (2^2 \times 10^2)$
$= 2^2 \times [1^2 + 2^2 + 3^2 + ... + 10^2]$

$$\left[\textbf{Ref: } (1^2 + 2^2 + 3^2 + ... + n^2) = \frac{1}{6}n(n+1)(2n+1) \right]$$

$= \left(4 \times \frac{1}{6} \times 10 \times 11 \times 21 \right)$
$= (4 \times 5 \times 77)$
$= 1540.$

3. The sum of first 45 natural numbers is:
A. 1035
B. 1280
C. 2070
D. 2140
Answer: Option A
Explanation:
Let $S_n = (1 + 2 + 3 + ... + 45)$
This is an A.P. in which $a = 1, d = 1, n = 45$ and $l = 45$
∴ $S_n = \frac{n}{2}(a + l) = \frac{45}{2} \times (1 + 45)$ $= (45 \times 23)$ $= 1035$
Required sum = 1035.

4. $666 \div 6 \div 3 = ?$
A. 37
B. 333
C. 111
D. 84
E. None of these
Answer: Option A
Explanation:
Given Exp. $= 666 \times \frac{1}{6} \times \frac{1}{3} = 37$

5. The difference between the place values of two sevens in the numeral 69758472 is
A. 0
B. 6993
C. 699930
D. None of these
Answer: Option C
Explanation:
Required difference = (700000 - 70) = 699930

Dr.R.Chinnaiyan, Professor /MCA-NHCE

Class activity@NHC-M

Class activity was organized by Ms Greeshma Francis for the subject banking law and operation in all section of 2nd sem bcom. Students were divided into team of 5 and were asked to make a collage on the topic recent trends in banking.

Class	Place won	Winners
2nd Sem Bcom Executive Date-17-3-17	1	Monisha,Kiran,Megha
	2	Gagana,Veeksha,Veena
	3	Madhushree,Gayathri,Raghavi,

Class	Place Won	Students Name
2nd Sem Bcom Professional Date-21-3-17	1	Anusha,Babitha, Kavya
	2	Lohith,Praveen,
	3	Lokesh R,Lokeshwaran,Lokesh Reddy,Hemant

Class	Place Won	Students Name
2nd Sem Bcom P&G Date -22-3-17	1	Sahil,Ranjith R,Kosaleshwara Reddy,Samjoseph Srinivas,Albert
	2	Nruthika,Tejaswani Rashmi,Vekataraman,Prathyusha
	3	Sindhum,Sahana, Yashwani,Priyadarshini,Sushama

"Quote Hanger"

An equation means nothing to me unless it expresses a thought of God.

— Srinivasa Ramanujan —

'New Horizon Bytes' is for you and by you. Write-ups, photographs, illustrations and feedback are welcome from students and faculty of NHC-K, NHPUC, NHC-M, NHCE and NH B.Ed. Please make them brief (maximum 300 words) and e-mail to nhbytes@gmail.com