

## MCA GRADUATION DAY 2017



MCA Department of New College of Engineering, an autonomous institution, affiliated to VTU celebrated its graduation day on 22nd July, 2017 at Chankya Seminar Hall with the dignitaries, staff, students and their parents. The Chief Guest for the Graduation Ceremony was Sri. Srinivasa Ramanujam, Academic Education Partner & Chief Executive, TCS, Bangalore. The Chief Guest in his address congratulated the students, management and faculties for their untiring efforts in converting the heterogeneous group of undergraduate students into MCA Professionals. He also appreciated the college for having very renowned academicians and for growing progressively. The chief guest also advised students to adopt, learn and share new tools and techniques and be a good human being. He also insisted that everyone must work with unity for maintaining a balance between their professional and personal lives. Dr. Manjunatha, Principal in his presidential address advised the students to learn the new technologies on regular basis for their survival. Also he motivated the graduates by putting their efforts to become as entrepreneurs and develop new products for the welfare of the society via which they can become as jobs providers rather than job seekers. The College conferred the Medal, Cash Award and Memento for the overall topper Ms. Sathya in the stream of Master of Computer Applications.

The dignitaries released the first copy of the frequently asked interview questions with answers for various subjects in book format written by the faculty members of MCA Department which is a unique initiative taken for employability enhancement of MCA students. This book mainly focused on the basic concepts of the various platforms in the field of computer science and information technology with objective and descriptive type interview questions and answers. It's a remarkable achievement done by the faculty team of MCA department for the training and placement welfare of the MCA student fraternity.

Dr. V. Ilango, Professor, Head of the Department of MCA proposed the welcome address, and mentioned that the highlights of the year 2017-2018, and congratulated the graduates for the successful completion of their degree. Dr. V. Asha, Professor delivered the vote of thanks.

Student volunteers Mr. G. Praveen Kumar and Ms. Riji Anandan anchored the entire programme.



## Music Workshop@NHCM



As part of Goonj's initiative to promote and inculcate the art of music among the students of New Horizon College, the club invited Ms. Amrapali Shindhe to conduct a workshop. Ms. Shindhe, who has years of experience as a playback singer and as a musician focused on the basics of music, a career in music and the business side of the music industry. It was a very interactive session where Ms. Shindhe patiently answered the student's queries. Close to 100 students took part in the workshop.



## Alumni Meet @ NHCM

The Alumni Association aims to act as a bridge between the college and the outside world, foster and encourage friendships, extend help to the students and faculty, assist the college in their progress and development, extend a helping hand in every possible way and celebrate the success of the college, as one. New Horizon College, Marathalli Alumni Association (NHCMAA) was started in the year 2011. Every year the association conducts an annual get-together in the college, serving as a platform for our graduated students to share their professional experience with our current students to excel in the corporate world. This year, there was a great response of over 100 alumnus. It started with a video presentation of pictures and videos of the previous batches, followed by an interactive session where Alumni shared their experiences and knowledge. There was also an entertaining performance by 3rd semester students who did a mock rock on "Life after college - expectation vs. reality". It ended with refreshments being served and socializing of student, alumni and faculty.



## Dance Workshop@NHCM



As part of Panache's initiative to promote various forms of dance to the students of New Horizon, the dance club hosted a chain of workshops. Panache collaborated with CultFit, one of the leading fitness centres in Bengaluru, in order to conduct a Zumba Masterclass in college. The aim of this initiative was to educate about Zumba, to make students understand that it is not restricted to any particular age or gender and the health and fitness benefits of this dance form. Close to 60 students participated in the hour long Zumba Masterclass session by Kirtana Ganapathi, Akshitha and Raj. For the next set of events Panache collaborated with 'Dance7- The Art Factory' for a workshop on Hip-Hop and Contemporary forms of dance by Kiran Phoenix and his team - Vishnu, Adarsh and Manoj. The focus of the workshop was to teach the basics of the respective styles and move forward to simple choreography that challenged the students to strike a balance between speed and definition. Due to an overwhelming response from the students we had to split the participants and conduct two sessions for each form of dance. The first session was between 12pm and 2pm in Nirvana and the second session was from 2:30 to 4:30 pm in the quadrangle.

## Investiture Ceremony-NHCM



On 17th August 2017, we celebrated 4 years of the Student Club. All the former presidents - Sayand Sajith, Reshma and Rohit V.R, have had a very strong vision which was carried forward and implemented exceptionally well year after year. But come this year, there is a new structure in place, all set to revolutionize the way the student club works. We have introduced clubs - Dance, Music, Management, Outreach, to name a few, with a head and sub head each, to carry out the various events throughout the semester. The aim of the student club is to start inculcating professional mannerisms amongst its members in order to give each member and all the students a better understanding of the real world. The investiture ceremony started with a welcome address by the MC, Aaron Britto, 3rd sem BBA Student, followed by Principal's address. He spoke about integrity, leadership and the importance of exposing yourself beyond the walls of a classroom. Then, the president, Kirtana Ganapathi addressed the gathering about her vision for the Student Council. All student club members received their badges, followed by the oath taking that was administered by Amogha Rahul, Former Cultural Secretary.



## NSS & Out Reach Activity-NHCM



As a part of NSS & Out-Reach activities, NSS students of New Horizon College, Marathalli conducted a One Day Cleaning drive in Lalbagh Botanical Garden, Bangalore. The cleaning drive was initiated post the Independence Day flower show, a bi-annual event conducted by Government of Karnataka in Lalbagh. While the event itself is a visual treat

and is visited by lakhs of people, the litter and waste that is left behind is an eyesore and health hazard. Students felt a sense of fulfillment in being able to restore cleanliness to one of the major landmarks of Bangalore.



## The Big Game-NHCM

The Big Game is a business game that tests the participant's managerial and entrepreneurial skills. It covers all aspects of managerial functions and gives participants a complete insight into the business world. Participants were teamed up in groups of 4, each participant had to take up a role of a Finance Manager or a Marketing Manager or a Human Resource Manager or a Chief Executive Officer. The teams were instructed to come up with an idea and make a business plan. In order to test the entrepreneurs, there were 4 bodies: Investor, Government, Consultancy and Bank. Real life scenarios were created in order to put the participants under stress. The participants were given one hour to start their company and the one hour was equivalent to one year. Though it was a group event, participants were judged on an individual basis. At the end of the first round, the top 17 managers qualified for the second round. The Second round was a job interview for a position of a manager. It was a professional interview where various stress inducing techniques and scenarios were used in order to get the participants out of their comfort zone.

### Winners

1<sup>st</sup> Place : Divas Kaushik

2<sup>nd</sup> Place : SadiaVali

3<sup>rd</sup> Place : Krishna



### “Quote Hanger”



## Quantitative Aptitude #20

1. In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs?

- A. 6.25
- B. 6.5
- C. 6.75
- D. 7

**Answer:** Option A

**Explanation:**

$$\text{Required run rate} = \left( \frac{282 - (3.2 \times 10)}{40} \right) = \frac{250}{40} = 6.25$$

2. A family consists of two grandparents, two parents and three grandchildren. The average age of the grandparents is 67 years, that of the parents is 35 years and that of the grandchildren is 6 years. What is the average age of the family?

- A.  $28\frac{4}{7}$  years
- B.  $31\frac{5}{7}$  years
- C.  $32\frac{1}{7}$  years
- D. None of these

**Answer:** Option B

**Explanation:**

$$\begin{aligned} \text{Required average} &= \left( \frac{67 \times 2 + 35 \times 2 + 6 \times 3}{2 + 2 + 3} \right) \\ &= \left( \frac{134 + 70 + 18}{7} \right) \\ &= \frac{222}{7} \\ &= 31\frac{5}{7} \text{ years.} \end{aligned}$$

3. A grocer has a sale of Rs. 6435, Rs. 6927, Rs. 6855, Rs. 7230 and Rs. 6562 for 5 consecutive months. How much sale must he have in the sixth month so that he gets an average sale of Rs. 6500?

- A. Rs. 4991
- B. Rs. 5991
- C. Rs. 6001
- D. Rs. 6991

**Answer:** Option A

**Explanation:**

$$\text{Total sale for 5 months} = \text{Rs. } (6435 + 6927 + 6855 + 7230 + 6562) = \text{Rs. } 34009.$$

$$\therefore \text{Required sale} = \text{Rs. } [(6500 \times 6) - 34009]$$

$$= \text{Rs. } (39000 - 34009)$$

$$= \text{Rs. } 4991.$$

4. The average of 20 numbers is zero. Of them, at the most, how many may be greater than zero?

- A. 0
- B. 1
- C. 10
- D. 19

**Answer:** Option D

**Explanation:**

$$\text{Average of 20 numbers} = 0.$$

$$\therefore \text{Sum of 20 numbers } (0 \times 20) = 0.$$

It is quite possible that 19 of these numbers may be positive and if their sum is a then 20th number is (-a).

5. The average weight of 8 person's increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person?

- A. 76 kg
- B. 76.5 kg
- C. 85 kg
- D. Data inadequate
- E. None of these

**Answer:** Option C

**Explanation:**

$$\text{Total weight increased} = (8 \times 2.5) \text{ kg} = 20 \text{ kg.}$$

$$\text{Weight of new person} = (65 + 20) \text{ kg} = 85 \text{ kg.}$$

# Cloud Computing Model for Internet of Things

At a basic level, cloud computing solution provides a way for the IoT systems to connect to centralized data storage. This enables the IoT to manage all aspects of IoT deployment such as device location and management, and data analytics in it. This almost increases the benefits of binding IoT with the cloud in terms of integration, and flexibility to access the services through an interface. It also offers a model for convenient, on-demand use of network application, access to servers and storage services. One advantage of cloud computing platform is that it provides renting of business processes on a “pay-as-you-go” rather than managing private data center. The integration of IoT with cloud gives user the flexibility to access the services offered by the cloud provider. The general service model offered by cloud includes Software as a service (SaaS), Platform as a service (PaaS), and Infrastructure as a service (IaaS). This research work has also identified a number services offered by cloud to IoT. It includes:

**Remote Processing** – It offers remote processing. As miniaturisation of devices and 5G connectivity is on the go, this service will offer developers offload remote processing in cloud.

**Virtualization**–Cloud virtualization in IoT enables cost-saving, hardware-reducing, and energy-serving techniques.

**Load Balancing**–Load balancing in cloud IoT is the process of distributing workloads across multiple computing resources. It reduces cost and provides maximum resources availability. It enables scalable traffic management. It also supports fault tolerance.

**On Demand Delivery**- Cloud computing in IoT enable resources such as storage, and other software system made available to users as needed. It simply means access to resources only when there is a need. This service helps to overcome the problem of fluctuation on resources demands, and there by reducing the cost.

**Payment only on usage**–The user of IoT system is charged or measured only for the cloud resource used for the timeframe. In this context, payment only on usage is related to on demand delivery.

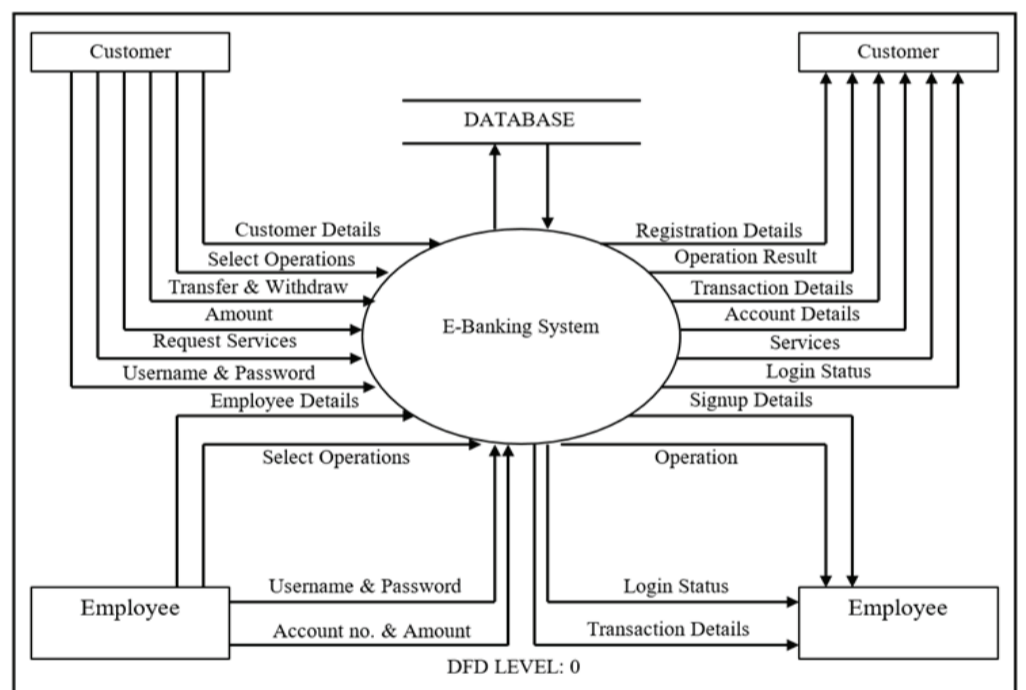
**Multitenancy**– This allow cloud resources to serve different IoT systems that are isolated from each other. For example, this allows two different IoT systems to use one cloud storage device, while each remains unaware that it may be used by others. With multitenancy or resource pooling, cloud resources are dynamically utilized based on the demands.

**Security** – Cloud provides security to IoT on Infrastructure and data storage. At infrastructure level, it provides security to network, host and application. The aspects of data security includes data at rest, data in transit, authentication, data lineage, data provenance and data remanence

**Data analytics**–Cloud supports massive parallel execution of data processing and analysis of IoT data. Traditional way of processing data across multiple servers can be overcome with the use of cloud data analytics for IoT application. Data analytics on cloud is done by simultaneous examinations of sensors data collected by IoT sensors therefore, it assures the quality and reliability of analysis.

M.Swarnamugi , Research Scholar – MCA, NHCE  
Dr.R.Chinnaiyan , Professor – MCA,NHCE

## DFD for e-Banking System



Abhishek Kumar , 4th Sem MCA,NHCE



### NEW HORIZON VIDYA MANDIR

Bhoganahalli, Bellandur Post,  
Behind New Horizon College of Engineering,  
Bangalore-560 103  
Ph: + 91-8065690701/703, Mob: +919900087732

Dear Parents,  
Hari Om!

#### ADMISSION NOTICE FOR PLAY GROUP, NURSERY, LKG AND UKG FOR THE SESSION 2018-19

Registration forms for admission for the academic year 2018-19 to Play group, Nursery, LKG and UKG can be downloaded from the website: [www.newhorizonvidyamandir.in](http://www.newhorizonvidyamandir.in) from 30<sup>th</sup> September 2017 onwards.

Registration forms can also be obtained from New Horizon Vidya Mandir or New Horizon Gurukul from 5<sup>th</sup> October 2017 onwards (Timings: 9.00am to 4.00pm).

Filled in registration forms to be submitted **only** at New Horizon Vidya Mandir. Parents can see the campus after the submission of registration forms on 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> October 2017. (Timings 9am to 12pm/1.30pm to 4pm)

Cost of prospectus and registration fee: Rs. 500 /- (mandatory for all applicants)

#### Submit the filled in registration form with the following:

1. The latest passport size photograph of the child
2. Photocopy of the birth certificate
3. Aadhar copy of the child

**Note:** For those in the sibling category, please submit the filled in form on 5th October 2017 only. In case you do not apply on time, the preference in admission will not be given and your child's admission will be considered in general category.

**For Play group:** The child should complete 1 year 11 months as on 1<sup>st</sup> June 2018.

**For Nursery:** The child should complete 2 years 8 months as on 1<sup>st</sup> June 2018 and for other classes the corresponding age is taken into account for admission.



PRINCIPAL  
(Usha Vasudevan)

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