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# ACG NEWSLETTER

Official Newsletter of AllCareerGuru.com

## What's Inside



Interview with Dr. S. N. Moorthy



Paths to success through 21st century skills - Think different

21 ஆம் நூற்றாண்டின் திறன்கள் மூலம்  
"-  
சிந்திப்பது



Upcoming Deadlines



Puzzle Corner



Dear Reader,

Welcome to the eighth issue of the official newsletter of allcareerguru.com.

It is that time of the year when students, particularly in classes tenth and twelfth, anxiously look forward to their results and plans for the next courses. We would like to remind you that our newsletter is more than a year old, and our past editions contained interviews and articles on careers in medicine, design, polytechnic, weather forecasting, audiometry and programs in IITs beyond JEE. Please take a look at them under Newsletter section in our website [allcareerguru.com](http://allcareerguru.com)

ACG also organises career guidance programs at various places, please watch the website for upcoming events.

Also recall that experts from ACG are waiting to give individual counseling to those who need them. Please fill up the form on the homepage of the website.

Editor

## ACG CHAT WITH DR. MOORTHY NARAYANA

**ACG:** Tell us about your background in Chemistry

**Moorthy:** I pursued my undergraduate studies in University College, Trivandrum, which was a government college under Kerala University and highly regarded at the time. The teachers there were devoted and meritorious, and took extra care to finish the syllabus and spark interest in their students. The college has produced numerous notable figures in science, literature, and politics who have contributed to the state, nation, and beyond. Later, I pursued my Masters at IIT Kanpur. During my time at IIT, I was introduced to the exciting prospects of a career in research. With access to some of the best faculty in the field, including world-renowned scientists, I continued on to pursue a Ph.D. in Chemistry.

**ACG:** How and why did you get interested in Chemistry?

**Moorthy:** Though I was initially interested in English literature and was a wildlife enthusiast, I ultimately chose to study chemistry. My interest in the subject was piqued by my family's scientific background. I considered pursuing medicine and engineering but had reservations due to my aversion to blood and the memorization required, and engineering due to concerns about job prospects. Ultimately, I felt that chemistry was the right fit for me.

**ACG:** What motivated you to go to IIT Kanpur? How did you hear of it?

**Moorthy:** I happened upon IIT Kanpur by chance when I asked one of my favorite professors, Prof. Dharmaraja Iyer, where to find the best MSc course. He recommended IITK and I followed his advice, applying and receiving an interview offer despite not having my degree certificate. I endured a long and difficult journey from Trivandrum to Kanpur, but found the campus to be an ideal environment for academic excellence. Although my family struggled with my move so far away, they eventually accepted it as a worthwhile opportunity.

[Click here to read more.](#)



**Dr. S. N. Moorthy**

[Principal Scientist, CTCRI](#)

Dr. Moorthy is a PhD holder in Chemistry who has made significant contributions in the field of research. With years of experience, Dr. Moorthy has published numerous papers in high impact journals and has authored several books on Chemistry. His expertise in the field has been recognized internationally, with inclusion in the list of top 2% scientists worldwide.

## **PATHS TO SUCCESS THROUGH 21ST CENTURY SKILLS - THINK DIFFERENT**

In this edition, we will cover the importance of "thinking differently" as part of our "Paths to success through 21st century skills" series. If wisdom is one side of the coin, then thinking different and being creative is the other side. You can make sound decisions from your knowledge and experience, and by thinking differently with creativity, you can come with new ideas and thoughts.

Why do we need to think differently?

Improvement needs a change: It is famously said, "If you stick to what you have been already doing, you will only accomplish what you have already done!". If you want to improve, you need to change, and nonetheless to say we always need improvement. This can be accomplished only when we think differently and creatively.

To show the difference: If you want to show the difference, it would be, almost all the time, creativity: whether it is in an interview, building a product, solving a problem, or showing your personality.

There are various other reasons to think differently, and it all revolves around the above two points.

Well, how can you think differently?

To build muscle in your body, the more you work on them, the better you build. The brain is one such muscle, work on them to develop it. Here are the key areas to train your brain muscle

[Click here to read more.](#)

## 21 ஆம் நூற்றாண்டின் திறன்கள் மூலம்

### " - சிந்திப்பது

இந்த பதிப்பில், எங்களின் "21 ஆம் நூற்றாண்டின் திறன்கள் மூலம்" தொடரின் ஒரு பகுதியாக " சிந்திப்பது" முக்கியத்துவத்தை நீங்கள் உள்ளடக்கவும்.

ஞானம் என்பது நாணயத்தின் ஒரு பக்கம் என்றால், சிந்திப்பதும், ஆக்கப்பூர்வமாக இருப்பதும் மறுபக்கம் பக்கம். உங்கள் அறிவு மற்றும் அனுபவத்திலிருந்து நீங்கள் சரியான முடிவுகளை எடுக்க முடியும், மேலும் படைப்பாற்றலுடன் சிந்திப்பது மூலம், நீங்கள் யோசனைகள் மற்றும் எண்ணங்களுடன் வரலாம்.

நாம் ஏன் வித்தியாசமாக சிந்திக்க வேண்டும்?

மேம்படுத்த, ஒரு மாற்றம் தேவை: இது ப கூறப்படுகிறது, "நாம் ஏற்கனவே செய்வதை கடைபிடித்தால், நமக்கு ஏற்கனவே கிடைத்தது மட்டுமே கிடைக்கும். நாம் அதிகமாக எதிர்பார்த்தால் நாம் ஏற்கனவே செய்ததை செய்ய

காட்டி: நீங்கள் காட்டி, அது கிட்டத்தட்ட எல்லா நேரத்திலும் படைப்பாற்றல் இருக்கும்: அது ஒரு நேர்காணலில் இருந்தாலும், ஒரு தயாரிப்பை உருவாக்கினாலும், சிக்கலைத் தீர்ப்பது இருந்தாலும் அல்லது உங்கள் ஆளுமையை காட்டுவதாக இருந்தாலும் சரி. சிந்திக்க பல காரணங்கள் உள்ளன, அவை இந்த இரண்டையும் சுற்றியே உள்ளன.

சரி, நீங்கள் எப்படி சிந்திக்க முடியும்?

உங்கள் உடலில் சதையை உருவாக்க, நீங்கள் எவ்வளவு அதிகமாக செய்கிறீர்கள், எவ்வளவு சிறப்பாக நீங்கள் உருவாக்குகிறீர்கள். மூளை அத்தகைய தசைகளில் ஒன்றாகும், அதை உருவாக்க அவற்றில் செய்யுங்கள். உங்கள் மூளை தசையைப் பயிற்றுவிப்பதற்கான முக்கிய பகுதிகள் இங்கே:

[Click here to read more.](#)

# UPCOMING DEADLINES

Here, we provide links and deadlines for various entrance exams and scholarships. More details are in our website (<https://allcareerguru.com/exams>)

## 1. National Council for Hotel Management Joint Entrance Entrance Exam (NCHM JEE)

Application timeline: Jan 2023 to May 2023.  
Eligibility Criteria: +2 (any group)  
For more details visit: [nchmjee.nta.nic.in](http://nchmjee.nta.nic.in)

## 2. National Entrance Screening Test (NEST)

Application timeline: Feb 2023 to May 2023.  
Eligibility Criteria: +2 (any group)  
For more details visit: [nestexam.in](http://nestexam.in)

## 3. Indian Maritime University Common Entrance Test (IMU-CET)

Application timeline: Mar 2023 to May 2023.  
Eligibility Criteria: +2 (any group)  
For more details visit: [imu.edu.in](http://imu.edu.in)

## 4. Chennai Mathematical Institute (CMI)

Application timeline: Mar 2023 to May 2023.  
Eligibility Criteria: +2  
For more details visit: [cmi.ac.in/admission](http://cmi.ac.in/admission)

## 5. Indian Council for Aeronautical Research (ICAR)

Application timeline: Mar 2023 to June 2023.  
Eligibility Criteria: +2  
For more details visit: [icarexam.net](http://icarexam.net)

## 6. National Eligibility cum Entrance Test (NEET)

Application timeline: Mar 2023 to Apr 2023.  
Eligibility Criteria: +2  
For more details visit: [neet.nta.nic.in](http://neet.nta.nic.in)

## 7. Bachelor Admission Test (BAT)

Application timeline: Apr 2023 to June 2023.  
Eligibility Criteria: +2 any group  
For more details visit: [baadmissions.tiss.edu](http://baadmissions.tiss.edu)

## 8. Indian Institute of Science Education and Research (IISER)

Application timeline: Apr 2023 to May 2023.  
Eligibility Criteria: +2  
For more details visit: [iiseradmission.in](http://iiseradmission.in)

## 9. Central Universities Common Entrance Test (CUET)

Application timeline: Apr 2023 to May 2023.  
Eligibility Criteria: +2 any group  
For more details visit: [cuet.samarth.ac.in](http://cuet.samarth.ac.in)

#### 10. **Common Law Admission Test (CLAT)**

Application timeline: Aug 2023 to Nov 2023.  
Eligibility Criteria: +2 any group

#### 11. **All India Law Entrance Test (AILET)**

Application timeline: Sep 2023 to Nov 2023.  
Eligibility Criteria: +2 any group  
For more details visit: [nludelhi.ac.in](http://nludelhi.ac.in)

#### 12. **Undergraduate Common Entrance Exam for Design (UCEED)**

Application timeline: Sep 2023 to Nov 2023.  
Eligibility Criteria: +2 any group  
For more details visit: [uceed.iitb.ac.in](http://uceed.iitb.ac.in)

## PREVIOUS PUZZLE - SOLUTION

### Previous Puzzle:

There are 100 doors and all closed. There are 100 magicians.

The first magician waves his wand, and opens every door. The second magician waves the wand closing the 2nd, 4th, 6th, ..., all the even-numbered doors.

The third magician waves the wand on the 3rd, 6th, 9th, ... doors (every third door, in other words), closing any that is open and opening any that is closed, and so on. After all 100 magicians have done their work in this way, what state are the doors in after the last pass?

### Answer:

Door number 1, 4, 9, 16, 25, 36, 49, 64, 81 and 100 (all perfect squares) will remain open and all other doors will be in closed state.

A door is toggled by  $i$ th magician if  $i$  divides door number. For example, door number 6 is toggled by the 1st, 2nd, 3rd, and 6th magician.

The door is switched back to its initial state for every pair of divisors. Here we have 2 pairs (1,6) and (2,3). But for perfect squares since the number of divisors are odd, it remains open at the end. For example, for 4 the divisors are 1, 2, and 4. The pair are (1,2) and (4,4).

## PUZZLE CORNER

Maddy painted a rectangular block on all six faces and then cuts it into exactly 110 unit cubes. Eight of these cubes have exactly three faces painted. How many of these cubes have exactly two faces painted?



Send your correct answers latest by midnight of 15th May 2023 for lucky draw on 16th May 2023 for selecting the winner

Send your answer to the puzzle,  
comments and other suggestions  
to

[newsletter@allcareerguru.com](mailto:newsletter@allcareerguru.com)

We would love to hear from you.

[allcareerguru.com](http://allcareerguru.com)

### Advisory Team

### Advisory Team

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