

**ACCORDING TO THE LATEST SYLLABUS
AND THE PATTERN WHICH IS FREQUENTLY ASKED**

**IIITPREP'S
For UGEE / SPEC
LEEE 2023**

IIIT HYDERABAD

INTERVIEW

**INTERNATIONAL INSTITUTE OF
INFORMATION TECHNOLOGY
HYDERABAD**

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FREE



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know it & crack it !

**COMPLETE SYLLABUS WITH MARKS DISTRIBUTION SCHEME
GRAPHICAL WEIGHTAGE OF SUBJECTS AND SUB TOPICS
CHAPTERWISE GRAPHICAL ANALYSIS
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SOLVED OFFICIAL SAMPLE PAPER
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PREFACE

The UGEE mode is for admission to dual degree programs in IIIT-H. Graduates of the dual degree programs earn two degrees: B. Tech and MS. The Master's degree requires the completion of a research thesis. The program prepares students for research-oriented jobs and higher studies. The duration of the program is 5-years.

UGEE has 2 parts, written and interview. Your result in the written exam decides whether you will be called for an interview or not.

Your admission to IIITH solely is majorly impacted by your interview performance. The panel consists of Senior Professors of IIITH and conceptual, application-based, and practical questions are asked. Your application skills and situational thinking are tested rigorously.

This book aims to guide the reader about how to approach the UGEE Interview round. It is written in an effort to improve the student's communication skills and to make sure he/she is aware of the Dos and Don'ts of the interview.

It will help the students represent themselves confidently in the interview and give them an idea about how the whole process goes by. It also includes various case studies and alumni points of view which by being aware of, increases the student's chances of clearing the interview.

Being aware of the content in this book plays a crucial role in clearing the interview as the most important thing about landing a seat in IIIT-H is to ensure that you are fully prepared for the interview. By preparing, you will feel much more in control. You'll have anticipated what will get asked in the interview, you will have learned so much about the process and you'll feel cool, calm, and collected. Well nearly!

We hope this little guide of a book helps and gives you some extra tips to be successful at the interview.

ACHIEVEMENTS OF IIIT HYDERABAD

INTERNATIONAL:

IIIT Hyderabad actively participates in various international competitions to provide exposure and practical application knowledge to their students. It has won many awards and has also been able to qualify among the top teams around the world.

Its legacy in Research and Application is unmatchable.

It gives tough competition to many foreign universities when it comes to the field of computer sciences.

CanSat is one such global competition hosted by NASA.

Contestants and teams from colleges and universities all around the world take part in this annual competition.

IIIT-H has been the only team from India to qualify for World Finals, each time, since 2009.2011.

In the competition, the teams are expected to simulate a real working satellite whose size is not more than a soda can, hence the name CanSat.

The challenge for the students is to fit all the major subsystems found in a satellite, such as power, sensors, and a communication system, into this minimal volume.

The CanSat is then launched to an altitude of a few hundred meters by a rocket or dropped from a platform or captive balloon and its mission begins: to carry out a scientific experiment and achieve a safe landing.

2018-Team FalconX Ranks 24th at CANSAT

A team of students from IIIT-H that qualified for the final launch phase of the annual CanSat competition organized by The American Astronautical Society (AAS) has just returned from Stephenville, Texas, securing a rank of 24 out of 41. This is an annual student design-build-launch competition for space-related topics. The IIIT-H team was among 40 other teams chosen world-wide for the final phase of the event. The organizers' rationale for hosting and conducting such a competition is that while similar competitions exist in other fields of engineering (robots, radio-control airplanes, racing cars, etc.), most space-related competitions are paper design competitions.



Previous Successes

In the past couple of years, IIIT-H has always had a presence in the world finals of this competition. In 2010, they emerged first and were the only team from Asia that year to qualify for the finals. "The fact that we could overtake teams from institutes having mechanical and other core branches of engineering, speaks volumes about the quality and the exposure that IIIT-H provides. We hope to learn from our drawbacks and mistakes made in this competition, and hope to improve next time," signs off the team lead.



- **Google India Women in Engineering Awards:** The Awards – called *Google India Anita Borg Memorial Scholarship* from 2012 – are meant to recognize and reward deserving women students in Computer Science and related majors, and inspire them to become active participants and leaders in creating technology. Given annually, the award is based on excellence in academics, passion for technology, demonstrated leadership, and originality of thought.

2011

Lydia Manikonda, a dual degree student (CSE).

2010 – Two students

Chhaya Methani, dual degree (CSE)

Kirti Garg, PhD (CSE)

2009

Sahiti Polishetty, B Tech (CSE).

- **RoboCup**

IIIT-H's Team Kshitji was the **only team** from India to have qualified for the finals of the *RoboCup* events, each year, for five years, since the inception of the international contest in 2004.

Awarded **Best New Agent**

Award at the *Trading Agent*

Competition Supply Chain Management (TAC SCM); (2006) Check.



Other Achievements and Facts:

- Ranked prominently in different categories of The Week, an Indian news magazine founded in 1982 and published by The Malayala Manorama Co. Ltd:
 - 1st in South Zone
 - 2nd in All India
- Ranked 11th in Outlook's annual ranking of India's top 23 Technical Universities in 2020.
- Ranked AAAA+ (Outstanding) in All India Technical Colleges.
- Ranked the 9th best university in India by a survey conducted by India Today. The ranking criteria is based on PG programs offered in three categories: General (Government and Private), Technical and Medical/Law.



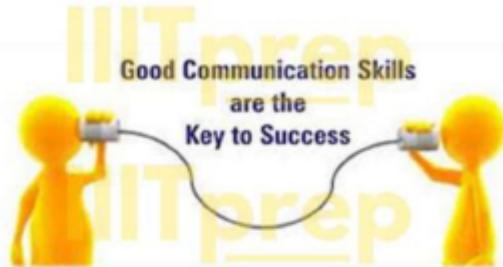
- Ranked 11th among 373 institutions in Atal Ranking of Institutions on Innovation Achievements (ARIIA-2020) Rankings in the self-finance universities category.
- Dataquest's T-School Survey 2020 has ranked IIITH among the top 3 institutions in India and top 1 in South Zone. This annual survey evaluates the performance of Tech schools in the country based on four parameters (commonly known as the PACE scale): Placements (40%), Academic Environment (30%), Campus and Infrastructure (Physical and Digital) (15%), Engagement and Outreach (15%).
- Education World's annual survey ranks IIITH number 1 in key parameters including faculty competence, curriculum and pedagogy, industry interface, and placements record.
- Top Ranking in Asia for AI and Robotics research
- Accredited at **Grade A** by *National Assessment & Accreditation Council (NAAC)* in Sept 2011.
- Ranked amongst the **top 6** among Universities in South Asia, in terms of *research papers on the Internet*, in a survey held every three years, by Cybermetric Lab, Spain's largest public research institution. (Oct 2009)

- Ranked in the **top 5** overall and **#1** in campus placement, among all technology schools in the country, including the IITs, by Dataquest, India's leading IT publication, in 2011.
- Figured consistently among **top 10** overall and among **top 5** on placement, among all engineering colleges in India, including the IITs, for 6 years, since 2006, in surveys by Dataquest.
- Recommended as a **premier research institution** in India by the US' *National Science Foundation (NSF)* for US graduate students to take up research fellowships and short-term research programs. (June 2009)
- Named among **25 Extraordinary Individuals and Institutions** that have transformed education in India, by the *India Today*, India's leading news magazine. (July 27, 2009)

SL. No.	Institute Name	2019 Rank	2019 Score	2018 Rank
1	IIIT Hyderabad	39	48.73	38
2	IIIT Delhi	55	43.49	66
3	IIIT Bangalore	65	40.51	56
4	PDPM-IIITDM Jabalpur	75	38.94	91
5	ABVIIITM Gwalior	81	37.82	>100
6	IIIT Allahabad	82	37.74	90
7	IIITDM Kancheepuram	197	30.37	>100

HOW TO IMPROVE COMMUNICATION SKILLS FOR INTERVIEW?

- Improving English communication skills requires extra effort as English is not the first language for most of us. In addition to this, the overall reluctance to speak English freely among relatives and friends in fear of being ridiculed.
- These reasons won't make a good excuse at an interview. But with some efforts can get you through.



What is a "good" communication skill?

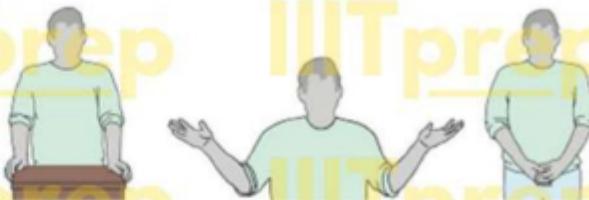
- The first step towards improving English communication skills for the interview is to understand what English communication skills mean.
- Effective English communication skills for an interview does not mean using the complex word, assuming an accent or trying to impress the interviewer.
- It means to answer the question in the simplest possible language and convey your ideas in a way the interview can understand effortlessly. You should talk in your natural accent. Do not try to impress the interviewer by trying to use words whose meaning and implication you are not aware of the property. You might end up embarrassing yourself or convey the wrong message.
- There are several ways you can improve your communication skills. The following point is some things you should look for:

Communicate to the point.

- During an interview, you might not get a lot of time to explain and speak in detail. So, it is better to communicate directly to the point. Answer only the question asked. It will help you to stay straightforward and concise. Minimize the chances of getting misunderstood. The interview is a briefing about you and your skills.

Make use of gestures and body language.

- Many students either fear or do not know to accompany body language or gestures with their words. When you use gestures with words, it makes the communication authentic. It seems appealing and confident to the professors.



Accompany it with the words you say. Ensure not to overdo it.

Know your audience.

- Knowing a bit of background about the college or institution might help you to have a good interview experience. Candidates are generally stressed about the interviews due to lack of experiences and exposure. The professors may seem like strangers and many are not comfortable speaking with strangers. While if you know who is your audience, it boosts confidence and reduces interview anxiety.

Speak slowly.

- Generally, one speaks fast during an interview and it reflects the nervousness of the applicant. While slow communication shows confidence. Take your time to say what you want to say. Pause for a second after every sentence.

Learn using shorter sentences

- This is something you can practice in daily life to improve English communication skills for interview. Learn to use shorter sentences despite having a lot to say.
- Using shorter sentences has several benefits. Firstly, it allows you to maintain control over your thought and for sentences correctly. Secondly, it eliminates the need to maintain proper grammar throughout a long sentence which is a harder task.

Videos to refer:

- <https://www.indeed.com/career-advice/career-development/how-to-improve-communication-skills>
- <https://www.youtube.com/watch?v=w9zyZh-oses>

IMPORTANCE IN PRESENTATION: KNOWLEDGE VS APPEARANCE

- Humans favour people they find attractive, people who look similar to them, people they are comfortable with. It's not right, it's not fair, and it is a harmful behaviour in the long run, but it is undeniably true.
- If you don't consider yourself to be appealing to eyes and if you're worried that you won't make a good first impression you must project confidence, especially if you don't have it. Know your answers to common interview questions Practice them until they become perfect, know your areas of skill, know how to answer questions that ask you about your weaknesses. Practice with friends or family until you are sick of it. Then, when you're under pressure you'll still come off comparatively well.

Will a well-dressed student outperform a student with better knowledge?

- Well, it depends on the interviewer strictly. In general, interviewers prefer candidates with sound knowledge (a clear picture of fundamentals) along with good behaviour.
- But sometimes people get deceived by appearance.
- The interviewers are worried that if they select a student based only on his looks, they will later be questioned by the management for hiring such a poor-performing student. So, they play safe and hire students with a considerable amount of knowledge and skills at least.

- Every interview story for a candidate is unique and varies from college to college hence, the only catch is "It has to be your day".

- My point here is that the student must be dressed well either way if he is knowledgeable or not. By "dress well" I mean having minimum dressing sense like wearing clean pressed formal clothes and being well-groomed.



- Once you have checked those basic etiquettes all that will take you ahead from there is knowledge.
- There a knowledgeable student will outperform any good-looking student whose strengths are limited to his appearance and not his brain.

How to introduce yourself in an interview?

"So, tell us about yourself", so simple yet has dreaded many candidates when they sit for an interview.

It's one of the most ubiquitous interview questions, and often one of the most difficult. With such a wide breadth of possible answers, it can be overwhelming to know where to start:



Some of the main points to keep in mind while going for an interview

Dress appropriately

Appearance plays an important role when meeting someone new. Considering you're a student, it's best advised to go in formals.

Be prepared

Confidence is equally important as you begin to verbally introduce yourself. To establish a solid foundation, boldly state your name. Do not stammer, you'll want to avoid making people struggle to hear your name or ask for it again. A solid volume shows you're confident, excited about the opportunity, and want to be respectful of their time.



Mind your body language

Body language is an integral part of communication. When you're meeting the professors during the interview process, keep in mind the attributes you want your body language to display. You must keep your back straight and chin raised high as this shows that you're ready for whatever type of questions they throw at you.

What is the right behaviour while answering this question?

- A firm handshake is a must, it shows confidence
- It should not appear as if you have memorized it, bring some feelings and emotion also
- No excess body movements, please. Don't shake your leg or move your hands too much
- Smile, it relaxes the environment in the room. But no smiling during answering a subjective question, it looks awkward.



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• Setting the tone:

You should see the “tell me about yourself” prompt as an opportunity to show the interviewer your most important qualities and to describe how you might contribute to the college community. As with any interview, you will have over your career, college years, and beyond, this prompt is meant to give the interviewer an idea of what qualities you offer that are relevant to the position at hand — in this case, as a member of that college’s matriculating class.

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For the UGEE interview: INTRODUCTION

You can start with your education details like where you are from, what are your academic interests and explain about the projects you have done, internships, and any publications. You can explain your strengths that will be beneficial for the college community.

In case you're still not confident make use the following format as it is:
"Sir, my name is <full name>. I'm <age> years old, I am from <city, state>. About my education-I did my schooling at <school name and city>, and complete my +2 carrier <college and city>, <brief introduction of family members and parent occupations>, my hobbies are <hobbies>., I am strict to my carrier point of view, my aim to be a software developer(example). <End with your strengths and weaknesses>."

IDEAL ATTITUDE/BEHAVIOUR AT THE INTERVIEW.



How important is the attitude in an Interview?

Sometimes the first impression is the most important part of any interview be it college or a job. Starting a job interview with the wrong attitude can undermine the process before it begins. Exhibiting a positive, confident attitude can be just as important -- and perhaps more important -- than grades.

Mostly the first impression is the important part of a college interview. So, exhibiting a positive, confident attitude is very essential.

The following are a few points to keep in mind:

Confidence:

Walk into your interview feeling confident. If you are nervous, take a deep breath before the interview to try to relax. Walking into the interview with a positive image of yourself.



Use intentional body language

Body language is an element of nonverbal communication that can impact the effectiveness of a message. Both speakers and listeners can utilize intentional body language to ensure they show their interest in the conversation. During your interview, use the following tips to help you leave a positive impression on the professors:

- Confident posture
- Smiling and relaxed facial expressions
- Nodding

Dress well:

When you look good, you feel good. Take the time to iron your shirt, polish your shoes – whatever will make you feel confident walking into the interview.



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Ears over mouth: Be a good listener:

If you are feeling negative during an interview when you're not able to answer the questions thrown at you, you might be drowned in negative thoughts. Practice effective listening to make sure you stay focused on the interviewer and understand what the interviewer is saying.

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Relaxed Attitude:

The best candidates are those who go into an interview with a relaxed and upbeat attitude.

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Make eye contact:



This is the best way to show you're paying attention and engaging with the situation. This doesn't mean stare blankly at the professor, but strive to hold eye contact for a few seconds at a time.

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Do Smile:

Smile and nod where appropriate, and laugh when the professors do.

You want to show you have a personality and you're paying attention to what's being said. Keep in mind to not overdo it, it may convey a wrong impression.

Carry a Can-Do Attitude:

Even if you feel like you are not a perfect fit for a job, you do not want to emphasize that during the interview. Before the interview, list up your qualities and expertise in specific fields and academics. This way, if they ask you why you think you're fit to join this institute you have several points to satisfy them.

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Don't Exaggerate It: Of course, being aggressively friendly can also be off-putting for the professors. The professors want to see that you are a genuine candidate – and genuine and sensible candidates do not talk unnecessarily all of the time.

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HOW TO PRESENT YOUR IDEA

If you are going to attend an interview, then it is important that you are clear with your ideas. You must know how to put forth your ideas and this can help you get some bonus points. Have clear concepts and do not be confused with whatever you've learnt. They can ask you theoretical questions practical and will help how to crack too. liitprep.com Sometimes before attending an interview, we all are super nervous.



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motivation.



We can put forth your

idea in a disciplined manner. If you have something to say, be respectful and disciplined. Polite manners and your gestures are observed on every step. Panicking will surely not help. You can register on iiitprep.com to get free UGEE interview material and trainings.

<https://www.youtube.com/watch?v=QHGj1la8z2Y>

<https://www.youtube.com/watch?v=EQV8aHN1ATs>

These links will help how to prepare for an interview.

HOW TO MOCK AN INTERVIEW: CAMERA OR MIRROR?

What's a mock interview and why you should do it?

A typical mock interview is a practice interview held at your comfort place and time whose sole purpose is only to give you an idea of how the actual interview process will be like.

A mock interview helps you learn how to answer difficult questions, develop interview tactics, improve your communication skills, and reduce your stress before an actual college interview.



Rehearsing is one of the best ways to prepare for an interview. Roleplaying a mock interview with a friend is one way to learn and practice interviewing skills, as well as using online interview preparation resources. Both of those are premium options but are still cheaper than getting professional assistance.

Practicing in front of cameras or Mirrors?

It's common advice given to a lot of students: practice in front of a mirror. This lets them see how they 'perform' and improve their body language. It's a very reasonable way of thinking. It's in the advice of many books and courses. Intended to make you look at yourself in real-time and make instant adjustments. But is this the best way to approach this issue?

One better way is to video record the mock interview and then review and critique it.

Always self-critique any interview completed. Figure out what you did well and what you did less adroitly. Be prepared in case the same situation or question comes again.



Why is practicing in front of the mirror, not the best option?

You will not even see how you act on stage (here, in front of the professors) because you are focusing on your reflection. What you see is not what you get. This might also mean that you change things that don't need changing!

Looking at yourself in the mirror when practicing might make you timid. When you look at yourself, you highlight what goes wrong. You are much more aware of what goes wrong rather than trying to improve your body language.



Record yourself



If you're like many people, you actively avoid watching yourself on video as it feels very awkward and insecurities start striking your head. While you're trying to get into a prestigious college like IIIT-H, however, it is beneficial to push through the discomfort and record yourself during a practice interview.

In doing so, you'll be able to refine your communication skills and create a more acknowledged appearance. If there is a webcam, video camera, or smartphone available, record your interview responses and play them back to yourself. Evaluate your body language and your answers to the questions.



Pay attention to your posture and eye contact; you don't want to fret, become too verbose, or show a lack of confidence. Unless you do not have a video camera or tape recorder, practice in front of the mirror.



Reference videos:

<https://publicwords.com/2020/02/11/should-you-rehearse-in-front-of-a-mirror/>

https://www.youtube.com/watch?v=g2wH36xzs_M

THE IMPORTANCE OF BODY LANGUAGE IN AN INTERVIEW

Preparing well before going to the interview is a great way to appear qualified and confident. It is important to make a good impression on the interviewer that you are hardworking, talented and that you deserve the seat in the college. No matter how smart you are and you're able to answer all the questions thrown at you, your attitude and character might stop you from getting into your dream college. Therefore, body language plays a crucial role in an interview.

Recalling a few tips about good body language can help you convey a positive message to your interviewer. You can make a solid first impression by dressing appropriately. Keeping arms open and uncrossed will display a friendly yet confident attitude. By keeping an interested expression and aiming to keep eye contact for 2/3 of the interview, you can convey that you are engaged. Generally, it is believed that bad interviews most often contain little to no eye contact! However, locked eyes or too much eye contact can cause you to appear overly aggressive, so be sure to look away infrequently.

Besides, hand gestures can be an essential part of your message to the interviewer. Simple, infrequent hand gestures help emphasize what you are saying—however, avoid pointing or using too many hand gestures, as this can make you appear fidgety and artificial.

Touching your face or hair frequently is also looked down upon by the professors who are interviewing you, so if you are unsure what to do with your hands, fold them together and hold them in your lap as it is an easy, neutral gesture that you can hold until the initial nervousness decreases and you begin to deliver those great answers that you prepared earlier.

Make sure you end your interview with a good closing statement and an everlasting positive impression on the professors.

Few tips to showcase good body language:

Where to sit: While waiting for your turn, choose a chair that gives you the best view of people coming and going so you won't be caught unexpectedly by the interviewer. In the interview room, if given a choice of seats, choose a seat that will allow you to maintain great posture and able to comfortably make eye contact with everyone in the room.

Maintain good posture

Once you are in the interview room, keep your posture upright. Sit in a straight-backed chair, and keep your chin up and shoulders down. A good posture displays confidence.

Leg position: Your legs should be still and uncrossed. Crossing your legs may become uncomfortable, meaning you will need to stretch them out during the interview and it also shows a lack of respect towards the professors. This discomfort could be misinterpreted as disrespect in the interview.

Keep your palms open

You can use your hands to talk if that is natural for you, but make sure you keep your palms open as you do so. Open, upward-facing palms tell that you have nothing to hide and are confident in what you are saying.

Use effective eye contact

In terms of eye contact, treat the professor like an old friend. Make eye contact with them regularly, but look away when it feels natural to do so too. Always maintain eye contact when shaking hands (if they allow you to, of course!). However, never seem disrespectful at any time during the interview as it will blow away your chances of getting into that college.

Be responsive

Nod and smile to show you are listening to the interviewer when they are speaking. These actions show you understand what the interviewer is saying and agree with their statements.

IMPORTANCE OF CONFIDENCE

What is confidence?

Confidence or rather self-confidence can be defined as the belief and faith you feel towards yourself. It is not something you are taught in school, as confidence has to come from inside. In a way, it's freedom from doubting every step you take in life.



Self Confidence is the answer to success, or we can say the foremost step to success. If a person has confidence in himself, he has already won half the battle. Those people who seem to be self-confident at work, school, and also in their daily life constantly appear on top of the world in every given task. Everything seems to go correctly for these people and they always seem to present themselves as peaceful, serene, and successful in everything they do.

How important is self-confidence?



Confidence in students is vital for his or her success. The amount of self-confidence a child possesses will affect his or her educational goals. If a child loses confidence in school, his or her grades will ultimately be affected. When a student's self-confidence suffers, a child may

give up on his or her hopes, dreams, and plans. They may feel that they are unworthy of obtaining their goals or it is impossible to achieve them. Raising confidence in students can help prevent student dropout rates, ensure that kids maintain their love for learning, and help them achieve their dreams and goals. There is no denying the fact that the relationship between a student's confidence and educational success is interrelated.

Example

Here is an example of how confidence can change someone.

When I hear the word "confidence" I'm reminded of one of my college friends. He was a very shy person.

When I first met him in college, he always doubted his abilities, was concerned about what people thought of him, used to study hard but was not able to perform in exams. Something was missing-Confidence.

In college, he started taking guitar classes and started working hard on his guitar skills. I can never forget those nights, he used to play guitar and we used to sing along with him. He also used to sing but people criticized his singing (I was one of those people). He had all the talent to perform in front of people but lacked confidence (even if he had a tiny bit of confidence, people like me crushed that).

He got a job through campus placement which he took up. He continued to play the guitar and started performing in front of audiences and even won competitions.



So, what changed which turned that shy guy into a confident courageous man?

Here are some of my observations:

1. If you have low self-esteem and no confidence in yourself, **Develop a hobby**. It can be anything like playing cricket, football, singing, yoga, swimming, reading, whatever you like. It has many positive effects: it will take your mind off from daily problems and reduce stress, it will reduce negativity as it will keep you busy. Once, you become good at it, people will start appreciating you. You will feel confident and this confidence will reflect in other spheres of life also.
2. **Ignore those people who always discourage you.** We cannot completely ignore these people as some of them are our friends, family members but keep our distance from them.
3. Believe in yourself and **be courageous**. Start taking initiative. Even if you make fool of yourself in front of people, do it because **Who Cares What People Think**.
4. **Know yourself.** It's very important to know your strengths and weaknesses. People who have low self-esteem, usually think about their weaknesses and ignore their strengths. They crave things they don't have. **Start appreciating yourself and work on your weaknesses.**

Another short story: Magic of self confidence

Once there was a business executive who was sunken in debt and could see no way out. Creditors were closing in on him. Suppliers were demanding payment. He sat on the park bench, head in hands, wondering if anything could save his company from insolvency.

Suddenly an old man appeared before him.

"I can see that something is worrying you," he said.

After listening to the executive's woes, the old man said: "I believe I can help you."

He asked the man his name, wrote out a check, and pushed it into his hand saying,

"Take this money. Meet me here exactly one year from today, and you can pay me back at that time."

Then he turned and disappeared as quickly as he had come.

The business executive saw in his hand a check for \$100,000, signed by Andrew Carnegie, one of the richest men in the world at that time!

"I can erase my money problems in an instant!" he realized. But instead, the executive decided to put the uncashed check in his safe. Just knowing it was there might give him the strength to work out a way to save his business, he thought.

With revived hope, he negotiated better deals and extended terms of payment. He closed several big sales. Within a few months, he was out of debt and making money once again.

Exactly after one year, the executive returned to the park with the uncashed check of \$ 100,000. At the same time, the old man appeared there. But just as the executive was about to hand back the check and share his success story, a nurse came running up and grabbed the old man.

"I'm so glad I caught him!" she cried.

He is always escaping from the rest home and telling people he's Andrew Carnegie.

The astonished executive just stood there, stunned.

All year long he'd been wheeling and dealing, buying and selling, convinced he had a check of \$100,000 behind him.

Suddenly, he realized that it wasn't the money real or imagined, that had returned his life around. It was his newfound self-confidence that gave him the power to achieve anything he went after.

Moral of the story:

Believe in yourself. Only you can change your life. Boost your self-confidence and see the magic in life.

IIIT Last Year Notification

A mock interview will be conducted on 4th August 2021 to smoothen the technology platform and logistic details for the main interview on 5th & 6th August 2021. Both interviews will be conducted using 'Microsoft Teams' as the technology platform.

You are required to be ready with the following for the mock interview:

1. A device (preferably a laptop/desktop or a tab) with camera and mic with Microsoft Teams installed.
2. Preferably a separate, secluded room for the interview duration.
3. Photo ID (e.g. Aadhar card / Voter ID / Passport / College-ID)

You will receive a Microsoft Teams link in your email prior to the mock interview (between 09:45AM - 01:30PM). Once received, please click on the Microsoft Teams link. When prompted, please set your 'screen name' to your IIITH application number to enable us to recognize you.

09:45AM - 01:30PM). Once received, please click on the Microsoft Teams link. When prompted, please set your 'screen name' to your IIITH application number to enable us to recognize you. You will then enter the meeting lobby. Please wait for your turn to be admitted from the lobby into the interview. This may take some time. In case you are logged out without attending the interview, login again and wait for your turn.

Additionally for the main interview:

You should have filled the following forms in your application portal by 09:00 PM on 4th August 2021, with required details and uploaded your certificates by logging into:

<https://ims.iit.ac.in/admissions.php>

- a. Extra Curricular Activities
- b. Pre-interview form
- c. Modify preferences

Please note the following DOs and DON'Ts:

1. Do NOT keep any other secondary device / calculator / electronics next to you during the interview.
2. Do NOT use online resources or other help to answer questions.
3. The interview will be recorded at IIITH end. You should NOT record the interview.
4. Do NOT post or otherwise reveal interview questions elsewhere.

Candidates who are found indulging in such activities will be detected by voice/face matching/AI and disqualified from the admission process and further legal action will be taken.

Sincerely,
Admissions Office,
IIIT, Hyderabad.

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IIIT Hyderabad Before Interview:

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Interview Experiences- 2022 Batch

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How long was your UGEE Interview ? (in minutes)

12-13 minutes

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What was asked in Physics ? Share Physics Experience

Nothing

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What was asked in Math ? Share Physics Experience

Three numbers were given SQQ,RSQ,4SR and they add to make Q8R so values of Q,S,R were asked and I solved it in approx 30 sec , my advice will be try to give a unique approach like I gave the logic that Q should be either 0 or 5 as last digit after adding is becoming R again and they were looking happy after this

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What was asked in Chemistry ? Share Physics Experience

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Complete Experience of Interview (Will be published in Next edition which will help lot many student)

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So when they let me in I switched on my mic and video and said good morning , then they confirmed by saying my name asked where do I live and told me to skip the introduction and showed me the 1st question which was of maths as I have already mentioned above then they asked me general question , It was like you are on 7th floor and dropped something on the 6th floor how will you bring that thing and distance between the floor was given 1.2 metres and they said that house on 6th floor is locked , so I started with my answer saying that I will take a stick which will be long enough to reach there and I will apply some sticky thing on one end and try to attach that thing with the sticky part then they said the wind is too fast it will lose contact with the sticky thing then I said 2 or 3 more ways and at last when I was out of ideas I looked at the 1.2 metre distance and said I will try to pick it up by hand (I was really laughing on myself while saying this one) and they asked what is your height and I responded approx 1.7 metre so may be I can try to pickup by hand and then interview ended .
I was really not sure how it went because I fumbled the general question very much
But when results came I was happy that I secured 103 Rank and got a seat in CND Program

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How long was your UGEE Interview ? (in minutes)

15-20 minutes

What was asked in Physics ? Share Physics Experience

THERE ARE 2 BULBS,ONE IS OF RED COLOUR AND ANOTHER ONE IS BLUE COLOUR,WHICH WILL EMIT MORE NUMBER OF PHOTONS?

What was asked in Math ? Share Physics Experience

THEY ASKED TO DRAW $\tan x$ GRAPH AND ABOUT ITS MINIMUM AND MAXIMUM VALUES

What was asked in Chemistry ? Share Physics Experience

NOTHING IS ASKED ABOUT CHEMISTRY

Complete Experience of Interview (Will be published in Next edition which will help lot many student)

SO I AM AN SPEC STUDENT. FIRSTLY THEY ASKED ME TO INTRODUCE MY SELF AND I GAVE A BRIEF INTRODUCTION ABOUT MY SELF INCLUDING ABOUT MY HOBBIES, MY EXTRA CURRICULAR ACTIVITIES... ETC. THERE AFTER THEY ASKED ME TO TELL MY FAVOURITE TOPIC IN MATHS AND ASKED ABOUT ITS DEFINITION AND THEY WERE ASKING CROSS QUESTIONS AND THEN ASKED ABOUT TANX GRAPH. THERE AFTER THEY ASKED A PHYSICS QUESTIONS "THERE ARE 2 BULBS, ONE IS OF RED COLOUR AND ANOTHER ONE IS BLUE COLOUR, WHICH WILL EMIT MORE NUMBER OF PHOTONS? AND WHY?" I GAVE THEM A ANSWER. THEN THEY ASKED A QUESTION THAT "WE CAN BREAK A SINGLE PIECE OF WOOD EASILY BUT WE CAN'T BREAK A BUNCH OF WOODEN STICKS WHY?"

THE ABOVE ARE THE QUESTIONS THEY ASKED ABOUT. THEY ALWAYS GIVE HINTS AND HELP US. INTERVIEW TAKES PLACE IN A VERY STRESS-FREE ENVIRONMENT. BE CALM AND COMPOSED AND WE CAN GIVE A VERY GOOD INTERVIEW AND I WOULD RECOMMEND TO LOOK INTO H.C. VERMA CONCEPT OF PHYSICS SHORT ANSWER PRACTICAL AND THEORETICAL QUESTIONS FOR PHYSICS, AND FOR MATHS GO THROUGH THE GRAPHS, PROBABILITY, PERMUTATIONS AND COMBINATIONS... ETC. THEY DON'T ASK MUCH ON CHEMISTRY BUT JUST GO THROUGH BASICS OF IT ALSO.

ALL THE BEST

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How long was your UGEE Interview ? (in minutes)

14 minutes

What was asked in Physics ? Share Physics Experience

What will happen when we kept the door of refrigerator open?? explain its reason

What was asked in Math ? Share Physics Experience

Sum of first n number sum of square of that n number and sum of cube. Its 4 power also how will you prove it that it is correct

What was asked in Chemistry ? Share Physics Experience

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Complete Experience of Interview (Will be published in Next edition which will help lot many student)

It was truly a amazing experience for me to give a interview in online mode in presence of such talented professor of iiithyderabad . I was. nervous how i will speak in english infront of them but once i started to speak i feel no difficulty in it.

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How long was your UGEE Interview ? (in minutes)

20

What was asked in Physics ? Share Physics Experience

can a refrigerator cool a room if it is kept open

Ans- it can not

So what will you do so that it cools the room

Which law thermodynamics is applicable here?

What was asked in Math ? Share Physics Experience

What was asked in Chemistry ? Share Physics Experience

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Another question was...there are 3 red hats and 2 white hats three people are standing in a row...they can't see their hats but can see the hat of people in front of them.

Now the last person says he doesn't know what he is wearing, similarly next and 1st person says he knows which color hat he is wearing

Ans-red

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How long was your UGEE Interview ? (in minutes)

15-16

What was asked in Physics ? Share Physics Experience

Two bulbs of same wattage are given. One of them emits red light and one of them emits blue light. Which emits more no. of photons/second?

What was asked in Math ? Share Physics Experience

A graph was given which contained dots of different sizes, colours and at different distances. I had to interpret what these parameters represented in context of : i) Covid infection map , ii) Grades ,iii) IMDb ratings.

What was asked in Chemistry ? Share Physics Experience

Complete Experience of Interview (Will be published in Next edition which will help lot many student)

I received the link 20 min before the interview. When the interview started, they asked me my introduction and then proceeded to ask questions. I was first given a question on coding-decoding that came in the UGEE written phase, so I gave the answer easily and told them that it came in the exam. They then showed me another question on Physics which I was able to easily solve and explain. After that, they showed the question on graphs in which I had to judge what the size, distances and colours of dots represented in different situations. I was able to interpret the sizes and colours of dots but was unable to judge what the distances represented. The panel gave hints along the way (they said to just make a story around the data you have) and I was able to come up with an answer. At this point, one of the professors of the panel asked another if they should conclude the interview, to which he said yes. (The entire panel had joined as one participant of meeting and also had the camera switched off. However, I was able to determine that there was one female professor and atleast two male professors.) I thanked them for the opportunity and the interview concluded. (Note: There was also another question they asked. My fan was making a lot of noise during the start which was making it hard to hear the panel's voice, so when I switched it off, they asked me why it was doing that, to which I replied that it was due to a faulty condenser. One of the professors wanted to enquire further about it but one of the other professor said that they didn't have time and the interview proceeded).

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How long was your UGEE Interview ? (in minutes)

6-7 minutes

What was asked in Physics ? Share Physics Experience

2 concentric ring are rolling without spinning complete one revolution. Is the distance travelled by 2 specific points (one on each ring) the same.

What was asked in Math ? Share Physics Experience

A triangle was given with vertices 1,5,9 and two places between each vertex. We had to place the digits such that sum of each side is the same.

What was asked in Chemistry ? Share Physics Experience

None

Complete Experience of Interview (Will be published in Next edition which will help lot many student)

I had prepared for questions like why I wanted to get into IIIT Hyderabad and why research so it was a little disappointing when they asked only 2 subject related questions. I could answer one of them but I didn't remember the derivation on a result I used to answer the question. Not a very good experience but it wasn't bad either.

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How long was your UGEE Interview ? (in minutes)

20

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What was asked in Physics ? Share Physics Experience

Nothing

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What was asked in Math ? Share Physics Experience

Permutation and combination question.

It was like...in how many ways you can 10 cities of by roads if you can also leave if you want to do so.

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And there was also one general question asking what will you if you are left on an island alone.

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What was asked in Chemistry ? Share Physics Experience

Nothing

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How long was your UGEE Interview ? (in minutes)

8-9 minutes

What was asked in Physics ? Share Physics Experience

a wheel system (there were 2 wheels with inner and outer wheels each) in a bicycle. they asked me to draw locus of the connected points at the top. and the distance travelled by inner and outer wheel.

What was asked in Math ? Share Physics Experience

a triangle was there with numbers written at vertices (1,5,9). i had to fill numbers (from 1-9) so as to form equal sum on each side.

they also asked to define a modulo like function without using modulo operation.

What was asked in Chemistry ? Share Physics Experience

no chemistry question asked

Complete Experience of Interview (Will be published in Next edition which will help lot many student)

For about half an hour I was sitting in the lobby, and then got admitted. Their video was off and I think there were 3 pros who were asking question.

Then they asked me about my name and introduction. But no acknowledgement of intro. They were pretty silent. Then they shared their screen and asked questions from that.

One was a triangle with 5,9,1 as corners and they wanted me to fill numbers (1-9) so as to form the same sum on each side. I solved that within 3-4 min. they asked for my approach. And then they were pretty satisfied with what I explained.

Then they asked me about some modulo function and how I can define some another modulo function without actually using modulo. I couldn't think of anything.

Then they showed an image with 2 wheels with inner wheels also connected (like a bicycle) and then asked how much distance would the smaller wheel would travel. But then they asked for the locus of connected points. Couldn't draw that. But I said the wheel would travel $2\pi r$ distance and then they asked which radius. That's pretty much it.

In between they were not responding to what I was saying. They also did not ask anything about my hobbies or research experience or anything apart from questions.

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How long was your UGEE Interview ? (in minutes)

15-20 mins

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What was asked in Physics ? Share Physics Experience

Nothing

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What was asked in Math ? Share Physics Experience

Ocean height has increased by 10cm. Estimate the weight of water increased. (No other information is given. This shows that you needed to approximately know the earth's radius and percentage of ocean that covers the surface of earth)

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What was asked in Chemistry ? Share Physics Experience

Nothing

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How long was your UGEE Interview ? (in minutes)

20 min

What was asked in Physics ? Share Physics Experience

How can we build a velocity selector for a charged particle using electric and magnetic field .

I explained that if we apply perpendicular electric and magnetic field to velocity and then particle with velocity E/B will not get any acceleration so it will move undeviated

What was asked in Math ? Share Physics Experience

They asked that what is probability of getting heads in coin

Then they asked if we are tossing coin 10 times and we get head 7 times then probability should be 7/10 then why is it 1/2

Then they asked by using probability how can I find area of window in a wall

And they asked why if we cook rice we pick 1 grain and think probably whole rice is cooked how is this different from coin case

What was asked in Chemistry ? Share Physics Experience

No question

Complete Experience of Interview (Will be published in Next edition which will help lot many student)

I joined the meeting prepared with my shirt and tie. There were board of interviewer but only one sir was asking questions first I greeted them, then they asked me to introduce myself that calmed me a little. Then in hobbies I said that I liked reading books of Stephen Hawking so they started asking about what work Stephen Hawking did I explained what I learnt from book (so lies won't work here remember) then they asked me my favourite subject I told them maths and cs. So they started asking me questions on probability -

They asked that what is probability of getting heads in coin

Then they asked if we are tossing coin 10 times and we get head 7 times then probability should be 7/10 then why is it 1/2

Then they asked by using probability how can I find area of window in a wall

And they asked why if we cook rice we pick 1 grain and think probably whole rice is cooked how is this different from coin case

Then they asked me question of physics.

They asked How can we build a velocity selector for a charged particle using electric and magnetic field. I explained that if we apply perpendicular electric and magnetic field to velocity and then particle with velocity E/B will not get any acceleration so it will move undeviated

I was able to answer the questions with correct logic I stumbled little in physics where the examiner guided me a little

Then I greeted them thank you and they didn't ask any such questions why IIIT why research I prepared for that than I left the meeting.

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How long was your UGEE Interview ? (in minutes)

18

What was asked in Physics ? Share Physics Experience

1. There are two identical train compartments with 1000 birds each. In one compartment, the birds are flying and in the other, they are still. Which compartment will be heavier?

Ans: They are both of same weight.

What was asked in Math ? Share Physics Experience

1. When a coin is tossed 10 times, head appears 7 times. Does this mean that the probability of landing a head in the next toss is 7/10? If it's not, then why is it appearing to be 7/10?

Ans: Number of tosses is very small so this variation has occurred, one can rectify this by increasing the number of tosses.

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What was asked in Chemistry ? Share Physics Experience

1. How will you demonstrate to your friends that water molecules in a glass of water kept at room temperature is in constant translational motion?

Ans: We can use food colouring to demonstrate this.

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Complete Experience of Interview (Will be published in Next edition which will help lot many student)

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IIIT Hyderabaud UGEE Interview 20/07/22, 8:08 AM

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IIIT Hyderabaud UGEE Interview

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Name _____
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Your Resources to prepare for UGEE (Apart from JEE Resources)
Did you use some extra material to prepare for UGEE? If yes please mention

Only the sample papers on their website

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Interview Written phase

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Prior to interview there is a written phase in which questions are asked. If this didn't happened in your interview experience please ignore this question. But if there was a written phase and you remember the question even little bit by memory. Please mention the questions below

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Your overall interview experience *

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How did you feel when you meet professors for first time in interview cabin ? How was the interaction ? Did they talked about your co-curriculars? What was your overall interview experience? The above mentioned questions are example to summarise your interview experience.

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They rushed the interview. We only talked about the 2 questions, nothing more and nothing less

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20/07/22, 8:08 AM

Interview Question 1 (Question should be PCM related) *

A simple question on graphs

Your Response to question 1

Interview Question 2 (PCM) *

A simple question on probability

Your Response to question 2

Interview Question 3 (PCM) *

Your response to question 3

Other PCM Interview question and your response

Interview Questions (NOT PCM)

No

Discussion about IIITH and Research

" Why IIITH? Why Research? Research in Computer Science? " Were any of these question asked

to you as well? What was your response

No

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Name

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Your Resources to prepare for UGEE (Apart from JEE Resources)

Did you use some extra material to prepare for UGEE? If yes please mention

Linguistics Olympiad material, Previous Year Questions

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Interview Written phase

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Prior to interview there is a written phase in which questions are asked. If this didn't happen in your interview experience please ignore this question. But if there was a written phase and you remember the question even little bit by memory. Please mention the questions below

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Your overall interview experience *

How did you feel when you meet professors for first time in interview cabin ? How was the interaction ? Did they talked about your co-curriculars? What was your overall interview experience? The above mentioned questions are example to summarise your interview experience.

The interview was on Microsoft teams. There were two panelists whose camera was never turned on (this is important because you cannot gauge their reactions about the correctness of your answers). There was a brief 1 minute spent on introducing myself. Then they asked two questions and ended the interview.

Interview Question 1 (Question should be PCM related) *

They gave a hill and a tower at some distance. When you climb to the peak of the hill what is the distance between you and tower. They also verbally asked what instruments will be required to find out the distance.

Your Response to question 1

I told them that it's similar to the distance between two towers questions in jee mains mathematics.

Interview Question 2 (PCM) *

A boat is set on automatic and left somewhere in the ocean. The boat can move straight and make right angle turns. How to make sure that the distance covered will be least when traveling to the shore ? (you don't know where the shore is)

Your Response to question 2

I told them that it moves in square path with increase side (it looks similar to the hypnotism circles you see in cartoon)

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Interview Question 3 (PCH) *

Your response to question 3

Other PCH Interview question and your response

Interview Questions (NOT PCH)

One guy who mentioned music as his hobby...was asked "What do you think is the similarity between PCM & the art of music making?"....were any of these questions asked to you too....please mention

No

Discussion about IIITH and Research

" Why IIITH? Why Research? Research in Computer Science? " Were any of these question asked to you as well? What was your response

No

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Name

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Anonymous

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Your Resources to prepare for UGEE (Apart from JEE Resources)

Did you use some extra material to prepare for UGEE? If yes please mention

Nope, not at all. Just JEE prep.

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Interview Written phase

Prior to interview there is a written phase in which questions are asked. If this didn't happen in your interview experience please ignore this question. But if there was a written phase and you remember the question even little bit by memory. Please mention the questions below

No written phase.

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Your overall interview experience *

How did you feel when you meet professors for first time in interview cabin ? How was the interaction ? Did they talked about your co-curriculars? What was your overall interview experience? The above mentioned questions are example to summarise your interview experience.

The professors seemed to be somewhat tired by my turn, and didn't bother to ask me to introduce myself. Just asked my name, my birthplace, and the 2 main Qs.

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Interview Question 1 (Question should be PCM related) *

There is a triangle with 9 circles, one circle on each vertex, and two on each side (between the vertex circles). Vertex circles have numbers 9,5 and 1. How to arrange the rest numbers so as to form a pattern in which sum of numbers in each side are equal.

Your Response to question 1

It was quite simple to solve.

Interview Question 2 (PCM) *

"Distance" travelled by the topmost points on the inner and outer radius of a spool, in one rolling motion complete rotation.

Your Response to question 2

Was quite complex to find.

Interview Question 3 (PCM) *

Your response to question 3

Other PCM Interview question and your response

None

Discussion about IIITH and Research

" Why IIITH? Why Research? Research in Computer Science? " Were any of these question asked to you as well? What was your response

Nope, not asked.

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IIIT Hyderabad UGEE Interview

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Your Resources to prepare for UGEE (Apart from JEE Resources)

Did you use some extra material to prepare for UGEE? If yes please mention

Nothing extra :)

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Interview Written phase

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Your overall interview experience *

How did you feel when you meet professors for first time in interview cabin ? How was the interaction ? Did they talked about your co-curriculars? What was your overall interview experience? The above mentioned questions are example to summarise your interview experience.

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Asked my into which I gave pretty confidently and nothing was asked as such about my hobbies and my interests. Directly PCM questions were asked.

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Interview Question 1 (Question should be PCM related) *

A function $f(x)$ is said to be smooth if $|f'(x)| \leq C$ for all x where C is a constant and C is called smoothness factor. If $f(x)$ has a smoothness factor of C_1 and $g(x)$ has smoothness factor of C_2 , what can you say about smoothness factor of :

- 1) $f(x) + g(x)$
- 2) $f(x)g(x)$
- 3) $f(g(x))$

Your Response to question 1

1) Differentiate $f(x)+g(x)$ to get $f'(x) + g'(x)$ and putting mod over the entire thing and using triangular inequality we get $|f'(x) + g'(x)| \leq |f'(x)| + |g'(x)|$ which gives that smoothness factor can be C_1+C_2 . Similarly differentiating others will give that we cannot say anything about smoothness factor of 2) and smoothness factor of 3) will be C_1C_2 .

Interview Question 2 (PCM) *

While running on a treadmill if the work done is zero then why do we loose energy in the process.

Your Response to question 2

Work is being done against the friction due to which we loose energy.

Interview Question 3 (PCM) *

None

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29/07/22, 8:09 AM

Your response to question 3

None

Other PCM Interview question and your response

None

Interview Questions (NOT PCM)

One guy who mentioned music as his hobby...was asked "What do you think is the similarity between PCM & the art of music making?"....were any of these questions asked to you too....please mention

None

Discussion about IIITH and Research

" Why IIITH? Why Research? Research in Computer Science? " Were any of these question asked to you as well? What was your response

None

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IIIT Hyderabad UGEE Interview

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29/07/22, 8:10 AM

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IIIT Hyderabad UGEE Interview

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Name

Not required if you want to stay Anonymous :-)

baw baw chiki chiki poo poo

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Your Resources to prepare for UGEE (Apart from JEE Resources)

Did you use some extra material to prepare for UGEE? If yes please mention

IIITPrep's PYQ book. Only because there are no PYQs anywhere else.

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Interview Written phase

Prior to interview there is a written phase in which questions are asked. If this didn't happen in your interview experience please ignore this question. But if there was a written phase and you remember the question even little bit by memory. Please mention the questions below

no written phase in online interview

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Your overall interview experience *

How did you feel when you meet professors for first time in interview cabin ? How was the interaction ? Did they talked about your co-curriculars? What was your overall interview experience? The above mentioned questions are example to summarise your interview experience.

There was very little talk outside of questions. Very unlike how people claim it used be when it was offline. It was a very short intro and then straight to questions.

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Interview Question 1 (Question should be PCM related) *

How'd you estimate the amount of fabric required to manufacture hats?

Your Response to question 1

Explained how you'd calculate a hat's surface area and estimate amount of fabric from that.

Interview Question 2 (PCM) *

(follow-up to the 1st question) How'd you derive the surface area of a hemisphere?

Your Response to question 2

I started with projecting the hemisphere onto a cylinder around it but they pushed me towards integration so I followed through and explained taking an elemental ring at theta and all.

Interview Question 3 (PCM) *

If our body has been evolved from millions (or whatever) of individual cells, net entropy has decreased. But that violates that law of thermodynamics. How?

Your response to question 3

Because energy has been put in to that particular system of cells for entropy to decrease. The law talks about increasing entropy of the whole universe. We can still decrease entropy of one system at the cost of another.

Other PCM Interview question and your response

nope

Interview Questions (NOT PCM)

One guy who mentioned music as his hobby...was asked "What do you think is the similarity between PCM & the art of music making?"were any of these questions asked to you too....please mention

nope they didn't even seem very interested in talking about my hobbies when I asked. But they did ask "Any questions?" and I jokingly replied "How well did I do?" after which they just started laughing and said I wasn't supposed to know that just yet. Then the interview was over.

Discussion about IIITH and Research

" Why IIITH? Why Research? Research in Computer Science? " Were any of these question asked to you as well? What was your response

They asked that right after the intro, "What is research? and Why?".

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Interview Experiences- 2021 Batch

Experience 1:

Interview was a good experience. A link of Microsoft Teams meeting was shared by Manager of the panel that was to interview me. As I logged in, I was told to wait in the lobby till I was admitted. After a long wait of two hours my turn came. The panel had 4-5 professors, not very sure as their video was not on. First, they asked me about my school and native place. Then the chairperson asked if I was nervous to which I replied that I was not. Then she told subject experts to move on to the subjects. They asked me three questions about application of concepts of Physics and Chemistry. After that the chairperson asked me the languages that I knew. After that I was told to translate some sentences of English to my mother tongue which I did. Then a few questions about the sentence formation in both the languages followed. I think I could answer all of them to the satisfaction of the panel. Interview lasted for about 25 minutes. Overall, I am satisfied with my performance and am waiting for the result to know the panel's assessment.

1. How can you measure temperature of a burning candle?
2. There is a stick burning from one end, how can you measure a time of 45 minutes using that stick?
3. How the temperature of Sun is measured?

Experience 2:

They asked a question

Given two sticks of different lengths burning at different rates along different sections

If each candle burns in one hour, how will you determine 45min

Note: We are told that if any data will be released by us, our admission will be rejected, no question asked So, I'll share anonymously

Experience 3:

The interview didn't include many general questions

- 1) They started out by "asking the language I was fluent in"
- 2) Then, they asked about the "12th board results and if I was satisfied with it".

3) Then they asked "about my favourite subject which to which I responded Maths"

4) After this, they displayed a maths question on screen related to Probability which was of Jee Mains level. But the most important thing was to explain the way by which one solved it. They gave hints whenever required.

5) Lastly, they displayed a graphical analysis question in which Case fatality rate was plotted against y-axis and age groups along x-axis. Then, they asked certain questions like the "shape of the graph resembled which mathematical graph" and "why a particular trend was being followed". Comparison between case fatality rate was asked between China and Italy. This was based on the current covid pandemic.

I was not able to give a satisfactory response to this question, so they tried to push me towards the answer by giving prompts and hints.

Extra points: - There were three professors- 2 men and 1 woman. The woman asked about the general details in the beginning and the two men asked questions one out of which asked questions regarding the problem on the screen while the other gave hints if the student was stuck.

This was the overall experience of the interview which lasted for about 20 minutes.

But they have told us not to reveal anything

They have recorded our video

Saying we will not reveal anything

Experience 4:

He was asked to introduce himself and then tell his hobbies

Then they asked him how can he apply physics in his daily life

Then a ppt was presented with 3 questions, first one was suppose there is an ice cube floating in a beaker filled with water, now all the ice melts what will happen to the water level, if answer is water level remains same then how can you say that scientists warn us that global warming melts ice so the sea level will rise , explain this

Then he was asked another question on mental ability, then his interview was over

Another Experience

Initial things similar just the question was diff

His question was what is the frequency of an electron revolving around nucleus, how will u find it, what causes elec to revolve around nucleus

Then he was asked mental ability question and his interview was over

Experience 5: (Rank 222 & UGEE Score: 121.5)

I received interview link at 4:07pm after waiting the whole day. Then had to wait in the waiting room for 50mins. Then I was admitted in.

The panel's video was off.

They asked me to give an introduction.

Then they asked be 2 questions, one related to Olympic. It had a graph, where X axis represented the years and y axis something, which we had to guess. I couldn't guess it.

The second question was a binomial theorem question, in which summation $nC_i * mC_j$ ($i+j=l$)= $(n+m) C_l$ is right or wrong was asked.

Interview lasted for about 7-8mins

Experience 6: (This Student was rejected in Interview)

I was kept waiting for a long time they forwarded the login mail very late. when I entered there were 2 profs who didn't have their camera on. They asked me to skip the introduction as they were running short of time there was a word document shared to me using screen sharing in the meeting. They asked me 2 questions 1 by 1

1st one -

1. There are more parents than children
2. There are no childless couples
3. Every boy has a sister
4. There are more boys in the town than girls

Prove or disprove the statement 1 by explaining the reasoning for a village of n people and for a village of n people

2nd question

You have gone for trekking you see a tree on the opposite side of the bank of river. How can you find the height of tree without crossing the river?

Best way to prepare for interviews is to read puzzle type questions like from book of shakuntala devi

You can also consider spending time on some websites to read some logical data science interview questions which do not involve coding.

These questions asked are that type of questions you can find in TED ED animated YouTube channel

Their main purpose is to check your logical approach and thinking abilities

Also, I have learned that never hesitate to try any of their questions on pen and paper don't try to always solve all questions in mind in the interview

For eg refer (these were not asked to me but these can help to improve your critical questions for such interview)

1. Water distribution problems 1 jug has 3l cap and other has 5 l how will you measure 4 l water using these two

2. Floating ice melts in a glass of water level doesn't rise then why do melting of glaciers cause rise in height of sea level

3. There are 9 bags of coins having coins of 1 gm each and 1 bag having 1.1 gm coins, you have a weighting machine that you can take only 1 measurement how will you know which bag has 1.1 gm coins

4. The prisoner hat problem, etc

Other Questions:

Q1: If an atom is kept in an external electric field, it gets polarised. Find the expression for the dipole moment.

Q2: How will you derive the expression for electric field inside solid charged sphere?

Q3: A very complicated problem on Polynomial Regression (3 Graphs were given on annual rainfall, with months on x axis and amount of rainfall on y axis and we had to find which graph was most accurate in predicting the rainfall for next year)

Experience 7:

Introduce yourself,

Q1 There are 10 stones in a row u r standing on stone 1 and you can jump forward to any stone number but cannot jump backward. What are the number of possible ways?

Q2 when you fill the balloon with the air your lungs and tie it up it starts falling down why is that?

Q3 But helium balloon rises up? Why?

Q4 Now we need the balloon filled with helium to hover at a specific height. Suggest a solution..... It can be very simple but u cannot tie it to the ground...

This year their focus doesn't seem to have detailed interview but to quickly scan a candidate for about 10-15 mins. It appears that this time they have not shortlisted too many candidates. They are just making sure that candidate is genuine

The interview was hardly lasted for 10 mins.

One person came and he was talking very frustrated and directly given one question and asked to solve me after I solved, he asked another question which I was unable to solve it he gave hint which I picked then he said thankyou interview done.

Experience 8:

Q. $4\hat{i} + 3\hat{j} + \hat{k}$ and $\hat{i} + 2\hat{j} - 4\hat{k}$ are co-terminal vectors of a parallelopiped for a given volume how can you find the third side vector? Are multiple answers possible for the third vector and how you conclude that there are multiple answers for 3rd vector?
[VECTOR-3D, STP]

Q. What fire escape strategies will you follow for a 30 storied building? (Think as a Engineer)
↳ (Strategies before building the Tower) [REAL LIFE BASED]

Experience 9:

The interview didn't include many general questions

- 1) They started out by "asking the language I was fluent in"
- 2) Then, they asked about the "12th board results and if I was satisfied with it".
- 3) Then they asked "about my favourite subject which to which I responded Maths"
- 4) After this, they displayed a maths question on screen related to Probability which was of Jee Mains level. But the most important thing was to explain the way by which one solved it. They gave hints whenever required.
- 5) Lastly, they displayed a graphical analysis question in which Case fatality rate was plotted against y-axis and age groups along x-axis. Then, they asked certain questions like the "shape of the graph resembled which mathematical graph" and "why a particular trend was being followed". Comparison between case fatality rate was asked between China and Italy. This was based on the current covid pandemic.

I was not able to give a satisfactory response to this question, so they tried to push me towards the answer by giving prompts and hints.

Extra points: - There were three professors- 2 men and 1 woman. The woman asked about the general details in the beginning and the two men asked questions one out of which asked questions regarding the problem on the screen while the other gave hints if the student was stuck.

This was the overall experience of the interview which lasted for about 20 minutes.

Experience 10:

Interview was a good experience. A link of Microsoft Teams meeting was shared by Manager of the panel that was to interview me. As I logged in, I was told to wait in the lobby till I was admitted. After a long wait of two hours my turn came. The panel had 4-5 professors, not very sure as their video was not on. First, they asked me about my school and native place. Then the chairperson asked if I was nervous to which I replied that I was not. Then she told subject experts to move on to the

subjects. They asked me three questions about application of concepts of Physics and Chemistry. After that the chairperson asked me the languages that I knew. After that I was told to translate some sentences of English to my mother tongue which I did. Then a few questions about the sentence formation in both the languages followed. I think I could answer all of them to the satisfaction of the panel. Interview lasted for about 25 minutes. Overall, I am satisfied with my performance and am waiting for the result to know the panel's assessment.

Experience 11 (AIR 4):

My interview was scheduled for 10 am on 5th August 2021. I logged on to Microsoft teams and joined the meeting 10 minutes early. Then at around 10:10 am, I was admitted in the meeting room. The panel did not have their camera on for the entire interview.

The first question they asked me was, 'Tell us about yourself'. I had already prepared a small crisp paragraph for my introduction including my name, educational background and hobbies. So, I answered without hesitation. (I suggest to not lie about anything in your intro because they do cross-question)

Then, they showed me a pdf with a question and a picture. The first one was a question of logical reasoning. It stated that there were two containers with milk and water (1 litre each). If 300 ml of water is poured from first to second container and then 300 ml back into the water container from the mixture one then what is more in quantity, the volume of milk in water container or the volume of water in milk container?

They gave me about 10 minutes to do some calculations (I had a pen and paper with me). I answered within 5 minutes and explained my entire working including why and how I got the answer. The Professor seemed to be very happy with it. They appreciated the answer and moved on to the next question which definitely took more than half of the interview time. The question had an image of a tram/train and they said imagine you are the driver of this tram and you have two choices of tracks in front of you. On one track you have five criminals and on the other you have one innocent person. Whom would you kill?

I thought this was just a simple moral question, so I answered that I'd kill 5 criminals but then he asked what if the tram was an electric-tram then what would you do?

I got a little confused by this and he gave me a hint, he said, 'Could you stop the train by any chance and not kill anyone?'. Further on, it became like a game of rapid fire, the panel would give me different situations like if the track is broken, if the track is continuous, if it was full of people and the innocent person track had a cliff etc. and I would answer whatever came into my mind first. I gave all the answers that I could and even mentioned electromagnetic damping for the electric train answer. Being completely honest, I also told them that I wasn't really confident about it.

The last situation he gave me was, 'What if the train had only the working staff and criminal-track had a cliff then what would you do?'

I answered that I'll still kill the criminals and have all the staff jump off the train before it falls from the cliff. I was laughing while answering and then the panel started laughing too. I think they enjoyed the answer.

Then they asked a simple definition of total internal reflection and that's it. Lastly, they asked if I had a question for them and I asked about the computational linguistics program just because I wanted to ask something.

We said thank you and I left the meeting. The interview took about 25 to 30 minutes.

Other Experience:

One other question from related to Olympic for checking data analysis of graph of records of 100 dash race and what year were they made

I was asked about my local languages and told to translate a few sentences and compare these languages with English

Interview Experiences – Past Achieve

Exam: UGEE

Branch: CSD

Batch: 2k18

Here's how my UGEE interview process went.

I cleared the UGEE examination and was invited to attend the interview for admission to the Dual Degree Programs through UGEE. IIIT Hyderabad shortlisted around 600 candidates for the interview, which was held from June 04, 2018 to June 07, 2018.

My interview was scheduled for June 05, 2018. The afternoon batch had around 70-80 students. We were made to sit in Himalaya Bodh-105. After document verification, we were randomly divided into seven different groups. We were made to sit in a classroom and a small set of students were taken to CVIT where our panel was taking interviews.

Written Phase - 20 minutes

Twenty minutes prior to my interview, I was given a bunch of sheets having three questions - one each from Physics, Linguistics, and Mathematics.

1. (a) Since Newton's First Law of motion can be derived from the second law of motion,

what do you think is the relevance of the first law? Did Newton give us three laws when

two would have been adequate?

(b) A similar Mechanics question which I don't remember.

2. A Linguistics Question of Medium Difficulty

3. You are given an equilateral triangle of side length 'a'. Disprove or Prove:
Among any

five points inside the triangle, there always exists a pair at the distance not greater than

$a/2$.

We weren't expected to write down the solutions. We were actually asked to think about the problems for 20 minutes. At last, they asked me to enter the interview room. BTW, they didn't allow me to carry anything inside the room including my extra-curricular certificates file.

Interview Phase

I entered the room. There were five professors in the panel - Prof. Jayanthi Sivaswamy, Prof. Kannan Srinathan, and three more whom I don't remember. They asked me to sit down and relax.

The professors were very friendly and encouraged two-way communication. Prof. Jayanthi was looking into my application form on her laptop. Yes, she was going through my answers for 'Why IIIT?' and 'Why Research?'.

Prof. JS: Naren, Tell me about yourself.

I gave a brief introduction about myself and told them about my interests and hobbies.

They went on asking more about my family, native place and place of study.

When I told them that I'm from Tirunelveli, Tamil Nadu and moved to Chennai for my senior secondary education, they asked me even more questions about my school. Prof. JS was surprised when I told her that I stayed in the hostel for two years. Then, they asked a few more questions about the camps which I have attended during high school.

After a healthy interaction, one professor asked me to choose from the order in which they have to ask the three questions given during the written phase. I solved the Lingo question. I managed to write some satisfactory reasons for the Physics questions. And, I didn't have any solid idea for the Mathematics question.

Reluctantly, I chose Physics in the first place, then Linguistics and Mathematics in the last place. I liked the Physics question very much. I explained my answer to the panel. One professor told that my answer was satisfactory. She even laughed at some irrelevant and incorrect points which I wrote on the answer sheet.

Then, Prof. JS went on asking more questions on Friction, Work and Energy. She showed me her copper bottle and gave me different scenarios of an ant climbing the bottle in different orientations. She asked me to explain some mechanics concepts in those scenarios and compare them.

Though the questions seemed to be easy, I was a bit nervous at that moment. I compared the ant climbing the bottle to a man climbing a hill. I answered some questions and the professors helped me at some times.

The panel skipped the Linguistics question. Prof. Kannan asked me to pick up a chalk and draw an equilateral triangle on the board. He explained the third question and asked me to prove it.

I started drawing some random lines and tried to prove it. I had no idea how to prove it. He then told me to erase and redraw it by joining the mid-points of the equilateral triangle. He helped me in every step until we arrived at some answer using Pigeon-Hole Principle.

Lingo. Prof.: Do you like Linguistics? Which language do you like the most?

Me: Yeah, I do like Linguistics. I like my mother tongue, Tamil.

Prof. JS: Why do you like Tamil? Which literature do you like the most in Tamil?

Me: There is a vast amount of scientific content written in the language 2000-3000 years ago. I love Thirukural, Purananooru, and similar texts.

Prof. JS: Can you write your favourite Thirukkural and explain it to us?

துப்பார்க்குத் துப்பாய துப்பாக்கித் துப்பார்க்குத்
துப்பாய தூஉம் மழை.

I wrote this on the board and explained the meaning behind it - the water cycle. It seems the professors actually liked my explanation. They started discussing the same for a minute.

Prof. JS: Great! Do you find the present web applications in your language efficient?
Have you worked with it? Share your experiences.

I shared my experience with Google Translate and its inefficiency in my language with an example. The professors laughed at my answer.

Prof. JS: Which field in Computer Science do you like the most?

I had no idea about the different areas. I just knew Cryptography, Artificial Intelligence, Robotics, and a few others. I told them that I liked Cryptography.

Prof. Kannan: Do you have any experience working with Cryptography?

I explained to him about 'Katapayadi System' which was popular in Kerala. I gave a brief history of the system which was used in ancient India for secret army conversation.

Prof. JS: Write it on the board and divide the word based on the logic of syllables.

I wrote 'Ka·ta·pa·yā·di' on the board and admitted that I don't know how to convert a Hindi word to Katapayadi language.

Prof. JS: Where do you see yourself in ten years?

Me: Ma'am, I would love to work in some research companies, or maybe institutes.

Then one professor asked about the occupation of my parents and then their area of specialization. Then, Prof. JS told me that the interview is over and I can leave.

Me: Ma'am, You didn't see my extra-curricular certificates. I have them outside in a folder.

I told them about some competitions which I have participated and won prizes. I told them about my works with Lego Kits. They were listening to all my stories patiently. At last, I told them about my experience with the CBSE Regional Science Exhibition held at Chennai. I told them that my team's idea was rejected by a panel of judges which included some IIT M professors. When I told them that after a year I found a prototype of the same idea made by IIT M students in the TOI, they laughed among themselves.

Prof. JS: If you are admitted to this institute, then bring that extra-curricular certificates file to my office. Your interview is over and now, you can leave.

"All four professors gave smiles and the interview ended with five happy faces! xD. The interview went around for 50 minutes. It's a memorable experience. No regrets about my JEE performance!"

This experience is shared by Naren Akash R J from IIIT Hyderabad.

Exam: UGEE

Branch: CSD

Batch: 2k18

What Happens at the Interview:

Their major focus is on original thinking, and not bookish knowledge. (Since that part was already tested in the written exam)

Also, they are not at all concerned with presentation skills/command over the language. (It is not a job Interview). One of my friends gave his Interview in Hindi

The pattern may change, as it did for the written exam.

However, I will tell, what happened in my Interview:

15 minutes before the Interview, they gave us a sheet of paper, having 3 questions and said that we could think about those questions and take down important points if we want. (They didn't check what we wrote, it was only for our personal reference)

The motive behind this was that students get time to think, and hence don't underperform due to pressure.

The 3 questions which I remember were:

1. Given some statements in a particular language, and their English translation, convert some more statements in the same language to English.

2. Why do you think humans tend to like sweet food, and what in your opinion, is the reason of addictions

3. Some Integral Calculus question, which wasn't much difficult.

Then, inside, the interview room, first they asked some general questions like, where am I from etc. This is mainly done to make the student comfortable.

Then they asked whether I could answer the first question.

I couldn't and I told them so, so they asked me to tell them whatever I had figured out.

Then they moved on the next question and asked some follow-up questions based on my answer.

Then they moved to the 3rd question and asked, "What if we add this extra condition here", I replied, "I think this should happen, but this a guess, In order to be sure, I need more time."

Then they asked another question: Suppose there are two men separated by a bridge, say X and Y and they can't communicate with each other by speaking.

However, they can communicate using sign language, but since, they haven't met before, their signal's might not be mutually understandable. And X has to act as a sort of a traffic signal for Y and signal to Y when should Y move, and when should he stop. Now, assume you are X. What will you do.

I answered that I will use a hand signal once and start walking, say signal-A and then another hand signal-B when I stop. So that Y understands that when I use signal-A, it means start walking, and signal-B means stop.

To conclude, I would say that, try to back your answers with proper reasoning. If you can't think of a solution, then just say, "I don't know"

and be calm and confident and try to give your best that day. You can't prepare much in advance for that.

This experience is shared by Amogh Tiwari from IIIT Hyderabad.

IIITprep
Exam: SPEC
Branch: ECE
Batch: 2k18

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IIITprep Spec interview is usually 40 to 60 minutes long. The panel comprises faculty members(usually 5). The interview is taken in a stress-free environment and can be given in English or your mother tongue.

IIITprep The interview has two parts. First is the Subjective part and the other one is a general introduction and questions on the same. The questions for subjective parts are mostly asked from Physics-Chemistry-Mathematics. The faculty is helpful and gentle and may help you if you are stuck at some point.

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Please keep in mind that it is your interview and you are the one who decides how it flows. Hope you have a pleasant and successful interview.

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All the best!

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This experience is shared by Venkat P from IIIT Hyderabad.

IIITprep

Exam: UGEE

Branch: CSD

Batch: 2k18

The interview happened almost a month after the written exam at the IIIT campus. We were asked to report at Vindhya from where they asked the candidates to move to the academic block or Himalaya. We were all seated in a room and were asked to wait.

Then they split us into groups and were made to move to different labs where the interviews were happening. Mine happened at CCNSB. We were moved to a conference room and one by one were asked to move to the rooms where the interview was happening. One by one, we moved to the interview room. Each of us were asked to wait outside and we were given a set of 3 questions and a paper to solve those. We got a little more than 20 minutes to solve the questions.

My first question was on graphs. They gave me a function and asked me to draw a graph for the same. This was followed by a question on linguistics. The question was pretty similar (although easier) to the one given as a sample question on the UGEE website. The third question was on Chemistry, the answer to which I was not pretty sure of. I had solved the first two questions pretty easily in 10 minutes and tried the third for the next 10 minutes and yet failed to come up with a definite answer. I was asked to move into the room soon after 20 minutes.

My panel consisted of 5 professors, Prof. Vasudev Varma (Then Dean Research), Prof. Syed and three other professors who I do not remember. One professor was particularly interested in Linguistics and she was the one who asked most of the questions. Let us call her Professor X ;-)

The panel appeared to be immensely friendly, as opposed to the terribly hostile faces that I had imagined prior to the interview. They asked me my name and a little about myself including my origins and schooling. Then they moved to the questions. I started to explain the answers, when Professor X interrupted and asked me to explain "How I approached the questions" or "What was going through in my head when I saw the questions for the first time" instead. So I started explaining how I reached the solution and the steps for the same, while explaining why I decided to do so. The graph was pretty easy to explain as it was pretty much simple mathematics. But the linguistics question took interesting twists and turns in between. I was not just asked to explain the solutions, but Professor X also asked

me to translate a few English sentences that she formed right there into the unknown language by observing the pattern and was also asked what each word in certain sentences of the unknown language meant in English. Luckily, I managed to answer most of the questions.

Then came the question that I couldn't solve. I told them that I couldn't solve it. A professor asked me, would you like to try or just quit. I said, I would definitely like to give it another shot. I tried for around 5 minutes and still couldn't solve it. The professor asked me to explain the system and again, how I approached the problem. I explained in detail what was happening, the interactions between the components of the system and more and then tried to explain the answer with the concept of Hydrogen bonding. But when the panel was not satisfied, I chose to admit that I do not have a proper answer rather than blurting out something stupid in the process of covering up. The professor said it was okay and started asking me questions about me. I showed them some of my achievements including prizes and PoRs I held at school. This was followed by the panel asking me what my preferences were and why I chose them. Then finally the panel asked me in some detail what my interests or hobbies were and said that I could leave the room.

The professors had made the environment comfortable and friendly enough for me to be pretty frank with them from the beginning of the interview. One thing is that, clearly, they were not just looking at how smart the candidate is but also, whether or not the candidate is suitable for research. What his/her interests are, whether or not the person would be able to handle failures and a lot more. My advice would be to show your actual self so that they get a fair opportunity to judge you for who you are and select you ONLY IF you're suitable for the same.

This experience is shared by Srinath Nair from IIIT Hyderabad.

Exam: UGEE
Branch: CND

Batch: 2k19

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How to prepare?

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Most of the questions are focused on what is taught in 11th and 12th class. So it is a good idea to prepare a general overview of whatever was taught in 11th and 12th. Instead of focusing on how to present yourself etc, it's better to spend that time reading especially ncert.

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Interview Tips

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The questions they ask aren't very difficult. If you are unsure of any question don't be scared to state it out loud. The interviewers are interested in your thought process as they are well aware of the fact that everyone has been taught different amounts in their schools, coaching institutes,etc.

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Just remain calm and you'll get through. Communicating your thoughts is the key.

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This experience was shared by Rishabh Khanna from IIIT Hyderabad.

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Exam: UGEE

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Branch: CSD

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Types of questions

Before the interview I was presented with 3 questions. I don't remember exactly but broadly:

1. One was on Thermodynamics.
2. Other was on 2D(Triangles)
3. Last one was on Linguistics.

Interview Tips

The aim of the panels is not only to check your knowledge or how quickly you are able to solve the problem but also how you do it and how confident you are with your answer. They might try to trick you even if you have the correct answer and see how confident you are on your answer. In case you are wrong they want to see if given hints could you identify your mistake and approach the problem correctly? Be calm and best of luck!!

This experience was shared by Prateek Sancheti from IIIT Hyderabad.

WHAT'S MORE IMPORTANT IN AN INTERVIEW: GRAMMAR OR FLUENCY?

What is more important while communicating in an interview? Fluency or grammar(accuracy)?

The explanation may not be as outspoken as you think, because it all depends on the circumstances you are in as an interviewee.

Now, let's interpret what each skill means and what it expects from you.

Fluency

Fluency is the flow and efficiency with which you express your ideas, particularly when speaking. A few grammar mistakes may appear here and there in the explanation, but they should be delivered in a way that is easy to understand and shows how comfortable you are with the language.



In an academic or even professional setting, this is one of the skills to focus on for an oral presentation or discussion. The way you explain your topic or prove your point – smooth, clear, and compact without too many pauses or equivocations – is as vital as the content of your presentation.

Outside of the classroom, fluency can help you socialize with other English speakers and avoid misunderstandings.

To improve your fluency in English, practice speaking every day by engaging in a conversation with someone. Now and then, throw in the new word or phrase you have just learned. But remember, don't let the fear of making grammar mistakes hold you back.

IIIT Grammar

Grammar, which is the accuracy in the usage of the language, on the other hand, expresses your ability to use the necessary vocabulary, grammar and punctuation correctly, such as verb forms (past tense, present tense, and so on), articles (a, an, the), and prepositions (in, on, from, at).

has
vs.
have

This skill is particularly important for written assignments at university, such as essays and lab reports. It is also an absolute necessity in the workplace, where an email or report that is riddled with grammar or punctuation mistakes may be viewed as unprofessional.



IIIT Final take away:

Fluent English is important in an interview. As long as you're fluently answering a question with a very minimal and unnoticeable grammatical mistake, it's all good.

If you have a major problem in speaking English, which might be due to several reasons such as English not being your first language, you must certainly work on it.

The only way to get through an interview is by successfully conveying your ideas and message to the person who is interviewing you, and this can be done only by having a good grip over the language you are using. Hence, Fluency > Grammar.

HOW TO BE IN FRONT OF CAMERA FOR INTERVIEW?

On-camera college interviews might be overwhelming for some people due to lack of experience and unawareness of the right etiquettes.

Of course, you're sitting in a chair waiting to be shot with questions by someone you barely know while there is a camera a few inches away from your face which might pose a problem for shy and insecure people.

There is no argument that being an interviewee during an on-camera segment can be a nerve-wracking experience. Knowing what to say and how to effectively relate your answers and points of view to the professors is crucial.

Here are some points you should keep in mind:

Have a pleasant surrounding

Take a seat, relax, and start with a friendly yet respectful conversation with the professors. Tune out the camera and pretend that the interviewer is a close friend (don't forget to be respectful and sensible at the same time). Focusing on your interviewer's eyes helps you to engage in the interview and distract yourself from nervousness and overthinking. Try to avoid shifting around in your seat or repositioning your body.

Be precise in what you want to say

Build a clear perception of the message that you are trying to convey. The general advice is to repeat your message three times throughout the interview; any more or less would cause the message to get lost or might seem you're overdoing it. Make your words short and effective.

Cut down the word count by 50%.

This sounds extreme and maybe impossible, but if you have a problem with speaking too fast because you're trying to say every relevant piece of info, you must try this.

Maybe half is too much unless it is not(can't say if you really speak too fast). Regardless, it will be a great exercise to help you get to the essence and the actual important details of the answer you want to tell in your interviews.

Mind your attire

Knowing what to wear is significant, but knowing what not to wear might be even more crucial. Flashy prints can be distracting during an interview and make your answers and messages less impactful. Stick to solids (pastels and bright colours) and keep a simple clean face without any kind of make or anything to avoid glaring on camera.

Be enthusiastic and creative

Nothing is more boring to the professors than a student who rambles on about a topic that they don't find interesting themselves. Enthusiasm, however, is pleasant, and smiling gives a positive impression to the professors through the camera. Also note that excitement tends to be toned-down through the lens, so don't be afraid to bump it up a couple of notches, even if it feels a little over the top.

Speak clearly and enunciate

Too often, people attempt to change their voice or tone or sometimes even their accent when being interviewed.

It is essential to be yourself! The professors can sense when oneself is not genuine or natural. A few more tips to follow are:

- Do no end your statements in a higher inquisitive tone as it can lead to confusion.
- Reduce the usage of 'ums' and 'you know' in your sentences.
- Avoid stammering by preparing for the interview.

Reference videos:

<https://www.indeed.com/career-advice/interviewing/video-interview-guide>

<https://www.jobscan.co/blog/zoom-interviews-8-tips-for-your-video-interview/>

How to answer the question - "What are your sources of motivation in life"

Interviewers often want to know what motivates you as this lets them judge your perspective of success and what are your principles of work. This question helps recruiters to find out more about you as a person. Your answer can give them some insight into:

- what makes you think.
- what you enjoy doing and what you value
- whether you would do well in a research-based institute.
- how well you would fit into the rigorous curriculum.



This question can be critical to many candidates because it is very broad and easy to misinterpret, and can affect your chances of getting into IIIT-H if you haven't thought about it in advance. The best way to answer such questions is by being honest and going with your instincts and heart.

The best way to approach this question is by adding details to your answer. Whatever you say about your motivation you should back it up with relevant examples in your life, academic experience, or extracurricular activities you have done.

When preparing to answer this question, you should think about:

- What do you enjoy doing? Think about your course and your wider interests. What do they have in common?
- Which subject intrigued you the most while preparing for the competitive exams like JEE mains and advance? What do you look forward to doing in life? When you came home feeling that you'd had a good day, in what way had you spent your time the whole day?
- What kind of problems motivate you to solve them like logical, research-based, or economical? In what sort of environments

(busy, deadline-driven, loud, quiet, etc) do you have the most efficiency?

The interviewers are bound to ask you-"Why research?"

Most undergrads are motivated to research by wanting to see how it is for them to research so that they know if they want to continue doing it by going to graduate school; and wanting to acquire skills and recommendation letters (and awards and publications, if lucky) to be able to get into good graduate school if they decide that they want to.

"Research is what I'm doing when I don't know what I'm doing."

Wernher von Braun

Here are some of the responses(examples) you can give-
(quoted responses of people who answered such question from the internet.)

"I think I always liked to solve problems and so I just kept going with topics I thought were interesting and when I met interesting people, I'd find out what they did and go along with them if I could to see if I enjoyed it as well! So, I feel research is the best career option for me."

"I've always wanted to find the answers to my questions on my own. The best way is to research the problems that you are interested in, I think. Like Sarah, what helps to keep me interested are the super interesting, diverse, and intelligent people!"

"I like being allowed to think for myself, and my research lets me do that. I loved trying to dig into things and get to the bottom of stuff in school, and I guess I've just carried on. I might still do something other than research later but interesting things have come along at the right time for me so far (I'm lucky!)."

SAMPLE QUESTIONS FROM 11TH & 12TH ACADEMICS FOR INTERVIEW.

- How Can Light Be Defined in Simplest Form?

Answer:

The common definition of 'light' (visible) is electromagnetic radiation visible to the human eye. It is only a small part of what is known as the 'electromagnetic spectrum' - which is the range of wavelengths of all possible electromagnetic radiation.

- Is Air Travel Time the Same Whether or Not the Plane Is Flying with Or Against the Rotation of The Earth?

Answer:

All air travel takes the earth's rotation into account. Flights from east to west take less time in absolute terms, having nothing to do with time zones. The reverse is true with west to east flights, and even north-south flights must calculate the amount of rotational deviance while the aircraft is in flight. Long-range naval cannons have been computing the earth's rotation under the projectile in aiming calculations for more than a century. Satellites in synchronous orbit that appear stationary are traveling at the earth's rate of rotation.

- Will A Dc Motor Produce Voltage If It Is Spun in Reverse?

Answer:

It'll produce voltage if you spin it forwards, too. The only difference between a DC motor and a DC generator is what you use it for. A long time ago, cars had DC generators on them instead of AC alternators. When you replaced a generator, you had to "polarize" it so it would make electricity. You hooked it up to your battery and let it run, like a motor, for a few seconds. Don't try that with an alternator because you'll break it.

If you're looking for a neat little elementary-school science project, you can use little Radio Shack electric motors as generators for things like windmills, water wheels, dynamos turned by bicycle tires

- Why Does the Pilot Tilt the Outer Wing of The Airplane Inward While Taking A Turn?

Answer:

Airplanes have two control surfaces involved when turning, the ailerons are on the trailing edge of the wings. By moving them in opposite directions, one up one down, the plane tilts, the lift the wings are generating now causes the plane to turn instead of going up. The rudder which is vertical at the back turns the plane to the left and right, but the rudder alone can turn the plane but not change its direction (side slipping) so to turn correctly you must use both the rudder and the ailerons.

- Which Atomic Model Did Erwin Schrodinger Create?

Answer:

Schrödinger's wave equation was based on the Heisenberg uncertainty principle that the position and velocity of an electron cannot be determined accurately (accuracy in one will sacrifice accuracy in another). Schrödinger's wave equation gave a wave function, which squared gave the probability cloud of electrons. Therefore, Schrödinger's contribution resulted in the electron cloud model of the atom.

- How Can Light Be Defined in Simplest Form?

Answer:

The common definition of 'light' (visible) is electromagnetic radiation visible to the human eye. It is only a small part of what is known as the 'electromagnetic spectrum' - which is the range of wavelengths of all possible electromagnetic radiation.

- What Is the Difference Between Isolation Transformers and Step Up or Step-Down Transformer?

Answer:

An isolation transformer may be physically the same as a Step-up/Step Down transformer. The main difference is in the way they are used.

Another difference is that in a normal transformer there will be capacitance between the 2 windings, between the windings and core, between the core and shell, etc.

These capacitances bring in high-frequency noise from outside, which will be transmitted in the secondary circuit. So [in an isolation transformer] wires are connected between each component, (not direct

contact, but with insulation present). This permits a leakage current and eliminates unnecessary capacitance.

IIIT Chemistry

- Explain How Buffer Works?

Answer:

In buffer when hydrogen ion is added, it will be neutralized by the base. Hydroxide ion will be neutralized by the acid. On the overall pH of the buffer solution, these neutralization reactions will not show much effect. While when you select an acid as a buffer solution, try to use an acid that has a pH close to your desired ph. This will help your buffer to achieve a nearly equivalent amount of acid and conjugate base, so that it will enable you to neutralize as much as H⁺ and OH⁻.

- Explain What Is the Formula You Will Use to Calculate How Many Millilitres Of 5.5 M NaOH Are Required to Prepare 400 MLX of 1.5m NaOH?

Answer:

To know the amount or volume of NaOH to prepare 400 mL of 1.5 M NaOH, we use the formula

$$M_1 \times V_1 = M_2 \times V_2$$

$$V_1 = M_2 \times V_2 / M_1$$

But before that we will convert 400 mL into litre = 0.4 L

$$5.5 \times V_1 = 1.5 \text{ M} \times 0.4 \text{ L}$$

$$V_1 = 1.5 \text{ M} \times 0.4 \text{ L} / 5.5$$

$$V_1 = 0.10 \text{ L}$$

$$V_1 = 100 \text{ mL}$$

So, you need 100mL of 5.5 NaOH

- Explain What Is Dextro-rotatory And Leva-rotatory?

Answer:

Laevorotation and Dextrorotation are referred to as the properties of plane-polarized light, when light rotates clockwise when it approaches the observer is then known as dextro-rotation and when the light rotates anti-clockwise then it is referred to as leva-rotation.

A compound that exhibits a dextro-rotation is referred to as dextro-rotatory and which exhibits leva-rotation is referred to as laevorotatory.

- Write the Mathematical Form of the Nernst Equation and Give One Application?

Answer:

$$E = E^\circ + \frac{0.0591}{n} \log [M_n^+]$$

Application:

1. It is used to calculate the electrode potential of an unknown metal.
2. The corrosion tendency of metals can be predicted.
3. Applications of emf series.

- What Are the Differences Between Chemical and Electrochemical Corrosion?

Answer:

Chemical corrosion:

1. It occurs dry state
2. Local attack to metal by environment
3. Chemical corrosion is self-controlled
4. It follows an adsorption mechanism
5. Ex: formation of mild scale on iron surface

Electrochemical corrosion:

1. Wet state (i.e.) presence in moisture
2. A large number of cathodic and anodic areas
3. It is a continuous process
4. It follows an electrochemical reaction
5. Ex: rusting of iron in moisture

- What Is the Difference Between Coordinate Covalent Bond and Covalent Bond?

Answer:

In coordinate covalent bond electrons which are shared by both the atoms are contributed by only one atom. This is otherwise known as the dative bond.

In a covalent bond, the electrons shared by both the atoms are contributed by both the atoms equally.

- What Is Geometrical Isomerism? Explain Them with An Example?

Answer:

Geometrical isomerism is an example of stereo-isomerism.

This occurs when substances have the same molecular formula, but a different arrangement of their atoms in space. There are three ways that this can happen:

where there is a C=C bond in the molecule;
where a molecule has rings; or
where there is a >C=N bond

- **Is Benzoic Acid a Weaker Than Para Nitro Benzoic Acid?**

Answer:

in p-nitrobenzoic acid due to -I effect of nitro group hydrogen present in Asia become more electronegative and easily remove as proton and act as a strong acid.

- **What Is the Difference Between an Ion and A Radical?**

Answer:

An ion is a species that has no unpaired electron and is charged, either positively or negatively i.e., maybe a cation or an anion. It is formed due to the heterolysis of a molecule

e.g., HCl----> H⁺ + Cl⁻

A radical is a neutral species having at least one unpaired electron and is formed due to the homolysis of a molecule

e.g., H-H -----> H^{*} + H^{*}

The * shows an unpaired electron. Similarly, CH₃* is radical.

- **How We Can Differentiate Between Oxalic Acid And Tartaric Acid?**

Answer :

By Fluorescein test ... where tartaric acid " used in baking powder and found in many food products

oxalic acid: harmful in contact with skin or eyes toxic. It removes Ca ions from blood and also block Kidneys Fluorescein test depended on Light passes & usually in UV light.

IIT Mathematics

- Give an Example Where You Can Use A Linear Equation in Your Daily Life?

Answer:

For example, if you are the office is 20 miles from your office, and you have reached 8 am, and you know that the traffic is moving at 40 miles per hour.

To know what time, you should leave from home, use this equation

Time taken = distance/ rate of travel

$t = 20/40 = \frac{1}{2}$ or half an hour. To reach the office at 8 a.m., you should leave home at 7: 30 am

- Explain What Is A Standard Deviation?

Answer:

Standard deviation is the measure of the spread out of the data about the mean value. It is referred to as sigma and represented as symbol σ .

- A circle is inscribed in a square. There is a rectangle whose one side is the side of the square, and the opposite side is touching the circle. The length and breadth of the rectangle are given to be 10 and 5 respectively. Find the area of the circle.

Hint: Try to use coordinate geometry and equation of the circle.

$\pi^*(25/4)$

- Prove $\min(a, \min(b, c)) = \min(\min(a, b), c)$ whenever a, b, and c are real numbers.

- Which one is larger e^{π} or π^e ? You must prove your answer analytically!

- Assume that for b is greater than 0 that $\int_1^{1+b} f(x)dx = 1 - b^{-1}$. Use this to calculate the following:

- The triangle inequality, valid for general n-component vectors reads $\|a\| + \|b\| \geq \|a + b\|$. Use the above to show that $\|a\| \leq \|a\| + \|b\|$.

- Prove or disprove: $(a \bmod n)(b \bmod n) = ab \bmod n$.

- Prove or disprove the following statements. You must state which techniques you used. a. The sum of the square of an odd integer and the square of an even integer is an odd. b. The product of an...

- Each of the following is an attempted proof of the statement for every integer n , there is an odd number k such that $n < k < n + 3$. Only one of the proofs is correct. Match each proof with a...

- What is an indirect proof?

- If one tosses a coin enough times, the proportion of "heads" will approach 0.5. This is an example of: A. the Law of Large Numbers B. the Central Limit Theorem C. subjective probabilities D. the Emp...

- Sixty percent (60% = the parameter) of all undergraduate applications to a certain university are from the state that the university is located in. At the admissions deadline for undergraduate stud...

- Supply the missing reasons for the following proof. Given: ABC and DF||BC Prove: DB over AD = FC over AF.

- Prove $\min(a, \min(b,c)) = \min(\min(a,b),c)$ whenever a , b , and c are real numbers.

- Proof that $\sigma(x_i - \bar{x}) = 0$.

- Prove or disprove that the product of any 2 irrational numbers is irrational.

- Explain the concept of the "law of large numbers."

- Give a proof by contradiction that if $3n + 2$ is odd, then n is odd.

- An unfair coin lands on heads 65% of the time. This coin is flipped 1500 times. What is the probability that the coin will land on heads between 960 and 1000 times?

- State Lagrange's Theorem.
- Discuss the tensions and the contradictions between the country and a pastoral vision of the early American republic, and a more urban, industrial, and technological version of it in Washington Irv...
- A fair coin is tossed 6 times. What is the probability of getting exactly 3 heads in the 6 tosses? A. 0.2 B. 0.3 C. 0.4 D. 0.5

IIIT H INTERVIEW QUESTIONS

Interviewers use five different types of questions - directive, non-directive, hypothetical, behaviour descriptive, and stress. Being aware of the different types can help you in the preparation stage as you build your skills inventory. It may also help you focus on exactly what is being asked and what the professors are looking for in specific questions.

Previously held IIT-H CLD interviews (past 2 years) had problems from Mathematics, Basic Linguistics, and more of a portion from the things that candidates wrote about themselves. So, course-related problems, critical thinking, and questions based on the details which you filled in the registration form can be expected.

Moreover, the interviewee drives the interview. So, questions can be as simple as 'what is the meaning of your name?' or 'which is your favourite gadget?' and based on your answers, more questions will be added. You would be given 3 questions to solve in 20 minutes before going to the panel. Many students were asked questions regarding those 3 questions (1 language question). That question changes day by day (Interviews were conducted for 5 days).

On a major note, they don't want to know the right answer to every question they ask but they just want to know that how you think about the solution (i.e., either you are fit for being a part of the research institute) so questions.

INTERVIEW QUESTIONS

- Since Newton's First Law of motion can be derived from the second law of motion, what do you think is the relevance of the first law? Did Newton give us three laws when two would have been adequate?
- You are given an equilateral triangle of side length 'a'. Disprove or Prove: Among any five points inside the triangle, there always exists a pair at the distance not greater than $a/2$.

- *Why IIIT?* and *'Why Research?'*.

In terms of CS research, IIIT-H is one of the best places in India, the very fact that most of the funding for the college comes from the companies in private and public sector for research should be enough proof of the research dominance in the field of Computers, of this college in India!

- *Tell us about your family, native place, and place of study.*

- *Questions on Friction, Work, and Energy.*
You see that bottle there? give different scenarios of an ant climbing the bottle in different orientations. Explain some mechanical concepts and scenarios with respect to them

- *Do you like Linguistics? Which language do you like the most?*
- *Do you find the present web applications in your language efficient? Have you worked with it? Share your experiences.*
- *Which field in Computer Science do you like the most?*

- *Do you have any experience working with Cryptography?*

- *Write it on the board and divide the word based on the logic of syllables.*

SOME GENERAL QUESTION ASKED TO CHECK YOUR CHARACTER AND MOTIVES

- *Which do you like better, Lions or Tigers?"*

"Oh, lions. They appear so majestic and are very sociable. To be honest, I think that seeing *The Lion King* four times has probably contributed to this!"

When preparing for this type of questioning, you must review the skills and qualities that the position would require and identify specific examples from your past which demonstrated those traits.

- *The typical "Tell me about yourself."*

When answering the question, keep in mind that the employer is interested in knowing how your background and personality qualify you for the job. In your answer, you should cover four areas: your education, related experience, skills and abilities, and personal attributes. As you talk about these areas, relate them to the job you are seeking. Decide what your response will be before starting to speak, this helps to keep responses concise.

- *What is the difference between confidence and overconfidence?*

Confidence means belief in oneself overconfidence means excessively confident or presumptuous confidence leads to success overconfidence leads to failure confidence strengthen self-strength overconfidence debilitate self-strength confidence make us think

positive overconfidence make us think negative confidence itself positive in meaning while overconfidence itself negative in meaning.

- Why do you want to attend this college?

College interviewers ask this question because they want to know that your interest in this school is real. Essentially, they want to see that you applied here for a good reason, not just because it was convenient, you thought getting in would be easy, or because your parents or guidance counsellor said to.

Here, you want to mix a little bit of flattery with some solid knowledge about what this school brings to the table. The interviewer wants to know that you're excited about more than furthering your education; namely, this specific college.

Exactly how you need to go about answering will depend on the school and why you choose to apply. However, the technique you'll use stays the same.

EXAMPLE ANSWER:

"I wanted to not only attend a school with an outstanding reputation in my chosen program, but also a larger institution that values diversity in its staff and student body. During my childhood, I had the opportunity to live in many other countries since my father was in the military. We got to explore each of the cultures, and I learned the value of being exposed to new perspectives and ways of thinking. I believe that diversity enriches the academic experience, and I know that is a value this college and I share."

- Tell me about an academic challenge you faced. What did you do to overcome it?

No school experience is without the occasional challenge. Maybe there was a subject that was particularly tough for you, or you had to change schools several times, making your school years a bit disjointed. Maybe you have test anxiety.

The trick with this question is honesty but also showing that you've got some fortitude. After all, if you're answering college interview questions, that means you graduated high school or earned a GED, so you found a way to navigate the situation. Mention the difficulty, but spend more time talking about how you discovered a way to succeed.

EXAMPLE ANSWER:

"Like many students, I suffer from test anxiety. My academic performance outside of exams was typically top-notch, but when it came to tests, my nerves were hard to overcome. Luckily, I discovered an approach that worked for me. I found that studying continuously in small doses made me more confident in my knowledge and made the material easier to absorb. I also joined study groups for subjects I found more challenging, giving me an additional resource and source of confidence. This allowed me to avoid cramming, as that would often amp up my anxiety. Additionally, I learned a breathing technique that I can use as I'm taking the exam. It's simple and subtle, allowing me to calm my nerves and regain my focus whenever the need arises. Together with the studying techniques, I can perform at my best during tests, ensuring I can showcase my understanding of a subject with greater ease."

- **How will you contribute to the college community?**

During your college interview, the interviewer might ask you this question as a way to gauge your involvement and commitment to the school. If there are sports, clubs, or other types of extracurricular activities that you are interested in taking part in, you can explain that to the interviewer. Here's an example answer.

Example: "I was very involved with my high school political science club, and since I will be majoring in political science, I hope to join the club here, too, so I can continue developing my skills in that subject."

- **Why are you interested in pursuing your major?**

Often, college students may enter their education programs with no real idea of what they will study. The interviewer most likely wants to know that you at least have a plan that you will commit to throughout your college career. Answer honestly with your reasons for choosing your major, or if you have yet to narrow down your choices, you might discuss two or three majors that highly interest you as well as your reasons for choosing them.

Example: "I am very interested in pursuing a career in political science because I feel like my generation should be involved with the development of our nation. I also feel that my generation has an equal responsibility to contribute to our nation, and I hope by studying

political science that I can inspire more young people to take part in our country's governmental processes."

- What skills do you expect to develop through your program?

You might be asked this question as a way to assess your awareness of your academic weaknesses and how you plan to develop or improve your various academic skills. Keep your answer honest and include one or two main skills you would like to develop.

Example: "*In high school, my research writing wasn't as strong as I would have liked, and I continue to build my writing skills in this area. I hope that through my education program I can further develop this skill to become an efficient researcher and writer.*"

- Do you plan to continue your education?

If you are presented with this question, it is alright if you have yet to make plans for graduate school. However, if you do plan to attend graduate school, go ahead and discuss this in your answer.

Example: "*I can see myself pursuing a higher degree after undergraduate school, though I do not quite know yet if that is something I want to do. I feel like I will have a better idea of my higher education goals after attending my program for a while.*"

- What career fields interest you?

The interviewer may be assessing your interests and evaluating which programs you would be best suited for. You might narrow down your interests to two or three career fields that relate to your major.

Example: "*I honestly don't know what I will be doing after graduation, but I know I would love to pursue a career in international affairs, legislation, or another political field.*"

- Will you seek financial aid?

If the interviewer asks you this question, it is most likely to assess which financial aid programs, grants or scholarships may be the best

choices for you. If you plan to seek financial aid, let them know in your answer what steps you have already taken to address the costs of college.

Example: *"I was awarded several scholarships during high school, and I will be seeking additional, qualifying grants."*

- What are your plans after you graduate from college?
- If you are still considering what to major in, you might not have an exact answer for this. However, if you have certain career interests, travel plans, or other development goals you can share them in your answer. Here's an example.

Example: *"I don't have an exact plan for after graduation, however, I do plan to pursue my career in political science. I hope that by moving into this career field I can also travel to some parts of the world that I've been wanting to see."*

- What are some academic goals you hope to accomplish in college?

This question might be presented as a way to assess your motivation and commitment to your education. If you have specific goals, share them in your answer.

Example: *"I would love to increase my knowledge of applied mathematics and earn top scores in my political science classes by the end of my first year in college. I feel that by accomplishing these goals I can further develop my critical and creative thinking."*

- What skills do you hope to develop in college?

The interviewer may likely ask you this question as a way to address your awareness of your skill level. Answer honestly with skill sets that you feel you can improve while attending college. Here's an example.

Example: *"I feel that my writing and communication skills can be improved. I plan to use my class time to work on developing my skills in this area. I feel that improving these skills will help me become a better writer and public speaker."*

- Do you plan to participate in academic activities outside of class?

This question can serve as a way to assess your interest, motivation, and dedication to your college campus. If there are projects, research papers, or other academic pursuits that you are interested in outside of class, you can share that in your answer.

Example: *"I am familiar with the academic clubs and opportunities your school offers outside of class, and I'm very interested in getting involved with a political research project. I would even be happy to start a project with other interested classmates."*

- **What achievement are you most proud of?**

Unless the interviewers specify that they want you to talk about academic achievement, this question can be about anything that you are personally proud of.

Try and mention an achievement that is quite recent and talk about how it positively affected you. You could talk about a prize you won during your studies, a test you did particularly well in, or a coursework project you were especially proud of. Contrastingly, this could also be a non-academic achievement; something you achieved in your spare time which got recognition, such as playing an instrument to a high level or running a student society.

This activity will not only show commitment and that you're willing to go beyond what's expected of you, but the fact that you achieved this whilst also completing your studies shows good time management.

- **What do you like to do in your spare time?**

This is asked to shed some light on your personality and to find out whether you'd be a good fit for the university. Here you should talk about a proactive hobby that you do often – playing a sport, for example. Explain what it is you like about this hobby and try to mention skills you've learned from it which you will be using at university.

For example, maybe you like that the sport constantly challenges you to improve yourself, or that you enjoy working in a team to achieve a common goal. Avoid bringing up controversial hobbies, or anything that might make you sound lazy or easily distracted (such as online shopping or watching Netflix).

- What is your greatest strength (and weakness)?

Admission interviewers are looking for something thoughtful, which is backed up with examples. The weakness side of the question can be difficult, but if you're honest, and talk about a weakness that you've already taken steps to improve on, also explaining how you intend to keep working on this, then interviewers will be impressed by your self-awareness.

MISCELLANEOUS INTERVIEW QUESTION FOR PRACTICE:

1. What do you feel are your academic strengths? How do they help you excel as a student?

2. Tell me about your academic weaknesses? How do you plan on improving or navigating them?

3. What is something unique that you can bring to the student body?

4. Do you plan on taking part in any extracurricular activities or clubs?

5. If you could change one thing about your high school experience, what would it be, and why?

6. Why do you feel that going to college is the right move for you? Did you consider other options for launching a career?

7. Who inspired you most as you were growing up?

8. Who is your favourite author, and why?

9. What do you do to destress or have fun?

10. Do you think your academic performance here will mirror your high school performance? Why or why not?

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11. How can this college and program help you achieve your long-term career goals?

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12. If you weren't focusing on this major, what would you choose instead?

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13. What do you want to get out of your college experience?

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14. Describe your ideal school culture, both academically and otherwise.

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15. Are you considering other colleges? If so, which ones are you thinking about, and why?

16. Tell me something about you that isn't in your college application or essays.

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17. If you attend this college, do you plan on living on-campus or off-campus? Why are you intending on going in that direction?

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18. Which subject was the most difficult for you in high school?

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19. Are there any graduation requirements that worry you?

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20. How do you plan on spending your college breaks?

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21. What skill did you learn in high school that you feel is most important to your future success?

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22. Describe the kind of student you are when in the classroom.

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HOW TO HANDLE MENTAL ABILITY QUESTIONS IN THE INTERVIEW

A mental ability test examines the overall potential of a student and helps determine their strengths and flaws. It judges different skill sets through various types of questions, which are based on multiple general topics and need to be answered within a specific period.



Mental ability questions in an interview.

The highly prestigious colleges and institutions decide the fate of the best performing candidates through a puzzle or a logic-based question asked during their interview. They consider the best way to test the problem-solving skills of the candidate being interviewed is a puzzle. Especially in the limited time interval, they are given, puzzles are the best way to check the abilities indeed.

Students need to apply their presence of mind and logical reasoning skills while answering those logical questions in an interview. The following ways can improve your chances of solving such questions.

- Practicing such questions before the interview helps students develop skills that are required at different stages of the interview.
- Listen to the question attentively: Before answering questions, understand what exactly has been asked. Sometimes, questions can be a little tricky; so, asking them to repeat them helps in finding the answers fast.
- Don't struggle with one question for long: If you do not know the answer to a question, leave it for the time being and move to the next. Do not spend a lot of time trying to find the answer to that.

- Practice sample **logical questions test**. Many tutorial websites also provide **mock tests** that you can access, such as IIITprep; this is certainly worth doing.
- It can be useful to develop a **mental checklist** of approaches to solve logical reasoning questions, such as a list of different rules that dictate size, shape, number, etc. This can help you to work more methodically on the test.
- In the pen-paper mode test, look at one rule at a time. There may be irrelevant data within the question, which is designed to confuse you. Focusing on a single perspective can help you work out what is important and what's not.
- Don't take too much time to answer. Sometimes you will come up against a question where you just cannot **see the answer**. Tempting as it can be, don't spend too much time on it. Move on and if you have time in the end, go back and check it.
- If you're struggling to find a pattern, sometimes there are clues in the answers (if it is a written test). Look for any patterns or themes in the possible answers; that might help you spot what is important within the question. For example, if you have a sequence of shapes and all of the answers are squares or triangles, you know that the next **shape in the sequence must be either a square or a triangle**, which could help guide you as to why.

WHAT TO AVOID IN INTERVIEWS?



An interview invitation proves that your written examination i.e., the first round has gone well, and you have managed to cross the cut-off set by the UGEE examiners. Now you need to do well in your interview and take another step toward your future education with a good performance.

The following article will help you avoid grave mistakes in your college interview.

Arriving late

Poor time management diminishes your ability to be punctual due to inconstant delays. Make sure you plan enough time for your journey. Delay is very poor behaviour.



Appearing uninterested

This mistake will cost your interview considerably and will irritate the professors. The number of people trying to get into IIIT-H are way more than you'd expect so don't blow off your chance by trying to act cool. If you aren't interested in studying in their college, they certainly aren't interested in giving you a seat. It may be helpful to talk to an alumnus who can help you thoroughly prepare for your information and may even be able to provide you with insider information.



Being unprepared.

Lack of preparation instantly throws away your opportunity of studying in that college. Those who are not confident and stammer too much for simple questions like their introduction embarrass themselves. Under certain conditions, one of the biggest interview mistakes could unbalance you and put other students ahead of you.

Sharing too much information.



Sometimes, people an over-truthful mindset in a job interview, so they speak from their heart in answer to every question. Not smart or useful! Be aware of the effect and impression you give to the professor with your words and think for a moment before you speak. Unnecessary small talk comes across as unprofessional and demonstrates an inability to concentrate on what's relevant.

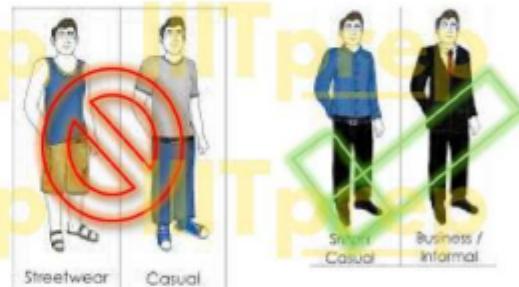
Overestimating your abilities.



Extravagant ego is aggressive. Avoid this improper interview behaviour and provide advantageous and objective information about yourself.

Inappropriate clothing

You give a poor impression of yourself when wearing inappropriate clothing. Avoid this common interview mistake and stick to formal wear which look good!



For more details you can refer the below videos.

<https://www.indeed.com/career-advice/interviewing/interview-mistakes-to-avoid>

<https://www.youtube.com/watch?v=XDz0CfbkB7g>

Things to have ready before an interview



In a college interview, you will be able to understand and clear doubts (if any) on why you should join this college, what does it provide that others don't? In return, the interview allows the college to learn more about you, your interests, and how you'll be able to contribute to their community.

Why preparation is a must?

What you do before going to an interview plays a crucial part in the overall performance of it. You must assess yourself based on how well you answer each question at the moment and how well you approach questions that you're not familiar with. Preparing for an interview drastically increases your chances of getting into the institution. Make sure to work on your posture, appearance, non-verbal communication like your hand gestures.

Things to do before the interview:

- Research and know what the institution's mottos are.

Before going into the interview, research the college/institution along with its history, values, and objectives. Check their official website first, then move onto other sources.

If there are any alumni, students, or parent reviews, study them and identify any recurring complaints that might alter your decision to study in their college.

- Take physical copies of your certificates.

Even though they have brief info about you on file, many interviewers prefer seeing a physical copy during the interview. Make sure you carry a file with all your extracurricular and academic certificates. Additionally, if they ask any questions directly related to your field of interest, you can immediately reference it to address their questions or concerns.

- Wear neat and appropriate clothes

Ensure that you have your formal wear ready which is ironed neatly the day before the interview. Go into the interview neat and clean, as that will give the professors a good first impression.

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- **Eat a light meal before the interview.**

Consider eating a healthy meal several hours before your interview. Consider foods rich in protein, healthy fats, and fibre.

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- **Prepare for obvious questions:**

I'll list out some of the most common questions which are asked in the interview. Make sure you have practiced how to answer these fluently and with confidence.

1. Tell me about yourself.

Rehearse answering this question. Try talking about your passions, hobbies, and interests. You can discuss what inspires you or what your friends like about you.

2. Why are you interested in this college?

While answering to this question state the common ideas and goals of you and the college and what are those particular subjects that are exclusive in their college. You should be able to cite specifics when answering this question.

3. Which subject do you want to major in?

Think deeply about *why* you want to pursue a specific major. Why do you find it fascinating? What experiences provoked your interest in the subject? How will the major enable you to reach your future professional goals?

4. Mention your academic strengths and weaknesses

Make sure you know your academic strengths. You should be able to explain how you recognized your strengths, how you're currently using them, and how you plan to use them in the future. **It's not good to say that you don't have any weaknesses.** That's not very believable, and you'll come off as arrogant.

5. What do you see yourself as in 10 years from now?

Paint a picture of the life you want to have in 10 years. That picture should reveal your uniqueness.

Video links you can refer:

<https://www.indeed.com/career-advice/interviewing/how-to-prepare-for-an-interview>

<https://www.thebalancecareers.com/top-interview-questions-and-best-answers-2061225>

HOW TO END THE INTERVIEW CORRECTLY?

When your interview is coming to a close, you're probably focused on how relieved you feel and how excited you are to get out of there and call your mom.

Ending the interview in an impactful way is crucial to increase your chances of selection.



Here are a few reasons why ending statements is important:

- **Expresses your interest in studying in the college:** The closing statement reveals your enthusiasm for the seat. Discuss a few key reasons why this opportunity is the right fit for you.
- **Underscores your skills and qualities:** A closing statement indicates how well you sell yourself to the professor. Give two or three examples of how well your skills and experiences can help improve college standards and contribute to their community.
- **Answers questions by the professor:** The interviewers may ask follow-up questions at the end of the interview to learn more about the character or a skill you've learned. The quality of your closing statement might answer their questions before they ask them.

Use examples of good interview closing statements to help you develop your appropriate way of wrapping up the job interview. Leave your interview on the best note and make an enduring impression.

How to end the interview correctly:

- Ask important questions

One way you could impress the professors is to ask thoughtful questions that show you are keen on working in the field of research. It also shows that you've been actively listening throughout the interview. It also reaffirms your interest in joining the college.

- Remind them of your key skills.

Finish your closing statement by emphasizing your strongest skills. Sometimes you might have to remind them about what extra skills you've learned in school/college. You need to explain how you can apply these skills in your research or the studies in college.

- Restate your interest in the college

The professors want to find out if you're committed to studying in this college. Keep these responses short and talk about what you like about the college and why you like to research.

- Ask if they need more information

Asking them about the additional information provides you with another chance to demonstrate your skills. Bring a copy of your extracurricular certificates and achievements if you think it is relevant to your course.

- Outline your achievements

Highlight the top milestones you've earned throughout your high school or college life to show that your experience transfers into this role. Explain how this milestone will help you in the four or five years of study and the research.

For more reference:

<https://www.coburgbanks.co.uk/blog/candidate-tips/closing-an-interview/>

<https://www.youtube.com/watch?v=YsgmPqUCyD8>

YOU MADE IT TILL HERE! BEFORE YOU GO FIGHT THE LAST BATTLE-

Interviews can be a nightmare, but if you are prepared and comfortable you can get over all your insecurities. Before you go in for your big interview, there are some things you should keep in mind. These will give you motivation, refresh your mind and build up the energy and confidence you need to ace the interview.

Be confident and believe in yourself.

You are capable of impressing the professors. Best of luck with the interview. Your hard work will sincerely pay off. You have the talent and blessings from god. Believe in your dreams and let your spirits show. All the best for the interview.

Just be yourself

Make sure your personality is well showcased. Before the interview, don't think about presenting yourself as someone you aren't. One of the best feelings is finding someone that accepts you for exactly who you are. You can't achieve that if you come off as someone you're not just because you want to study at IIIT H. It won't be worth it in the end.

The interview is the last hurdle before reaching your dream college.

Don't think of the interview as the last thing in your life. Instead, think of it as one of the hurdles you face on your way to the top. This will ease off some of the pressure you might be experiencing.

Remember to breathe.

Be calm and composed. Be at ease with yourself and you'll ease through the interview. If you're nervous you won't be able to convey your ideas and points of view in the best way possible. You might start stumbling while speaking due to nervousness and feel overwhelmed. As long as you stop and take time to breathe and calm yourself, all of that preparation will show.

Small Request to all Student

As per Every Year IIITH will warn you not to disclose what happened in interview outside, but you have got this handbook because of your seniors who contributed to us and which helped other for Interview.

It's a One stop solution, this will save your lot of time because you have got all things at one place rather than searching here and there. Same happened with our memory-based paper book also,

around 5 questions in 2022 paper were directly from PYQ and REAP Book, they got repeated, which eventually help all others. It's said that

"We make a living by what we get,

we make a life by what we give"

So, don't forget to Contribute your Interview Experience here after Interview: <https://forms.gle/ghzKu1NwHhJV987XA>

We keep all contribution anonymous and nothing will be disclosed.

All the very best!

#IIITHyderabadPhodnaHai

