

Chemical Engineering interview Questions with answer

1. Tell me about yourself and why you are interested in chemical engineering.

I've always been curious about how things work, especially in the world of chemicals and processes. Chemical engineering allows me to apply scientific principles to solve real-world problems, and that's what excites me.

2. Questions related to your projects and internships?

During my internship, I worked on [project], where I [brief description]. This experience enhanced my practical understanding of [specific skills relevant to the job].

3. Define: Unit operation, Unit process?

Physical changes occur in the chemical industry is known as a Unit Operation. Example: Distillation, Filtration, Drying, Extraction, Gas absorption, Crystallization, etc.

Chemical changes with or without physical change occur in chemical industry are known as a Unit Process, Example: - Oxidation, Reduction, Alkylation, Sulfonation, Chlorination, etc.

4. Explain azeotropic distillation? Give an example.

Azeotropic distillation is a process to separate liquids with similar boiling points. For example, in ethanol-water mixtures, an azeotrope is formed, making traditional distillation challenging.

5. Explain batch and continuous distillation? In what kind of industries are they used?

Batch distillation is like making small batches of cookies, one at a time. Continuous distillation is like a continuous production line. Batch is used in small-scale production, while continuous is common in large-scale industries like petrochemicals.

6. Types of pumps?

There are two main types: centrifugal pumps (for liquids) and positive displacement pumps (for precise volumes and high pressure).

7. Types of valves?

- Ball valve: Simple, quick on/off, good for high pressure and isolation.
- Butterfly valve: Similar to ball valve, but lighter and cheaper, good for large-diameter pipes.
- Diaphragm valve: Leak-proof, good for corrosive or sterile fluids.
- Globe valve: Fine flow control, good for throttling.

Chemical Engineering Interview Questions And Answers For Freshers File

Y Pai



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Resources in Education ,2001-10 **Chemical Engineering** ,1985 *Projecting Science and Engineering Personnel Requirements for the 1990s* United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Investigations and Oversight,1993 *The Complete Book of Colleges, 2017 Edition* Princeton Review,2016-07 The MEGA GUIDE to 1 355 COLLEGES AND UNIVERSITIES No one knows colleges better than The Princeton Review Inside The Complete Book of Colleges 2017 Edition you ll find meticulously researched information that will help you narrow the search for the best college for you Each of the 1 355 user friendly profiles answers your questions including How much are tuition and other student fees and costs What types of financial aid are available and when are the applications due What do admissions officers most look for in test scores and recommendations Which majors are the most popular and have the highest enrollment What is the housing like and how accessible is technology on campus What are the key campus organizations athletics and student activities How selective is the school Plus Indexes based on cost selectivity and size that will help you narrow your search Get a leg up on your college search with this easy to use comprehensive and savvy guidebook from the experts at The Princeton Review Newsletter University of Michigan Computing Center,1980
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