

| Timestamp | Email Address | Name | Professor 1: | Questions asked: | Professor 2: | Questions asked: | Your experience during viva with the professor | How u prepared for the Grand Viva (Books, Notes, Links etc)? | |
|--------------------|---------------|------------------------|---------------------|--|-----------------------|---|---|--|----------------------|
| | | | | | | | | [1] | |
| 3/12/2021 15:39:01 | | Hrutvij chore | D sarkar | Distillation column calculation If the height is very big propose solution | Harikrishnan G | Picks law 1 2 Significance of constants Their names, units and difference between them | D sarkar was rough and HG was a little soft | | B.Tech (17CH) |
| 3/12/2021 15:39:48 | | Het Dave | Prof. Arnab Atta | Why did you study in 4 years? Why did you study Transport Phenomena? What did you see in Transport Phenomena? What did you study in Fluid Dynamics? What is the difference between Unit and Dimension? Why are Dimensionless quantities important? Reynolds number for liquids? | Prof. Bhaskar Bhaduri | Endothermic and Exothermic reactions? Draw the graphs for both of those. Activation energy and Heat of Reactions. Arrhenius Equation, and the significance of A? | I didn't know what we studied in Transport Phenomena. But still he seemed chill. | Just the document of question asked in previous year's Viva. | B.Tech (17CH) |
| 3/12/2021 15:50:42 | | Karan Virender Mahajan | SDG | 1. Started with name of atleast 6 subjects studied so far 2. Thermo, asked about spontaneous reaction? Entropy changes, entropy decrease example and why 3. Gibbs free energy vs helmholtz free energy 4. Activity coefficient, its definition etc. 5. Changed to nusselt number definition etc. 6. Nusselt number using solid liquid boundary (basically wanted to know about continuity of flux) | Swambabu | 1. Started with activity coefficient and fugacity etc. 2. Variations of fugacity and its questions 3. Results law and modified results law 4. Process control something 5. Time constant related definition 6. Damping and its cases, how to check 7. Some random ass Mass balance ques he wanted me to write the equation of Some other ques which I don't remember | SDG: Very chill and enthusiastic. even switched on his camera in between, and cut me off during my last answer when he figured I know my stuff :P Swambabu: random ass questions from various subjects (typical viva prof) | Notes only of 2 subjects fluid and TP | Dual degree (17CHFP) |
| 3/12/2021 16:08:09 | | Atharva Wagle | Prof SDG | 1. Name 3rd semester subjects 2. In CPC what is key component 3. Tell me about turbulence - how to differentiate between two turbulent profiles statistically 4. What is Gibbs free energy | Prof Swambabu | 1. What is limiting reagent 2. What is yield and conversion 3. If you give a bank loan and you have lot of data, what would you select as the limiting parameter and by what engineering tool/method 4. Define stability in a system 5. Parameters in a transfer function 6. What's a first order and second order system | Both professors were encouraging discussion and thinking out loud, questions were very conceptual | Books and Notes | Dual degree (17CHFP) |
| 3/12/2021 16:20:02 | | Chinmay Singh | Arnab Atta | What is J Colburn analogy? What is meaning of analogous terms? What are different types of materials depending on their viscosity characteristics? What is Reynold number for turbulent flow? Does turbulent flow value for turbulent flow change is the fluid is water or lava? Does it change for non Newtonian fluids? What are constant temperature and flux boundary conditions? If fluid enters at 20 leaves at 40 in a tube. How would you calculate heat flux if the tube walls are in Neumann/Dirichlet BC? | Bhaskar Bhaduri? | What are Langmuir isotherm? What is thermal diffusivity and it's unit? What is difference between adsorbate and adsorbent? What is ditus boiler equation, state it? | May god pass us all. | | B.Tech (17CH) |
| 3/12/2021 16:21:10 | | Siddharth Mohapatra | Rabibrata Mukherjee | 1. Draw the boundary layer inside a pipe. 2. Relation between vapor pressure and boiling point. A. High BP, low VP; Low BP, high VP 3. When there is 50-50% mixture of two components, what is the boiling point of the mixture? A. It is a range. 4. Relation between vapor pressure and surface tension (wtf???) | Saikat Chakraborty | 1. What are the asymptotes of the Navier-Stokes equation so that it can be solved numerically? A. 1st asymptote - Make the diffusive term zero. 2nd asymptote - Make the convective term zero 2. Why are hyperbolic PDEs difficult to solve and how to solve them? A. Because of the presence of the diffusive term, so make it zero to solve it analytically 3. 1 question on CRE 4. What is the entropy gain of the surroundings during photosynthesis A. The heat of photosynthesis divided by the atmospheric temperature 5. What is the fundamental difference between stage and continuous processes A. Stage processes occur at equilibrium, continuous processes don't | RM was chill, Saikat's questions require answering from 1st principles, so paying attention to every single word in his biochemical class helps (some of his questions are not from his notes, so you can't rely on his slides) | Go through your class notes, and go the viva questions asked previously. Also do a youtube search for interview/viva questions in chemical engineering instead of going through multiple sources if you don't have a lot of time in your hands | B.Tech (17CH) |
| 3/12/2021 16:36:09 | | Killada Satya Aditya | Debasis sarkar | 1) how do you separate a three component mixture us 2) what is homogenous, non homogenous equations... 3) what factors do you consider to decide the location | Harikrishnan G | 1) what is linear algebra 2) name any process where you use matrix s | Happy that they didn't call me for the 2nd time | | B.Tech (17CH) |
| 3/13/2021 11:20:25 | | Anmol Joshi | Swati Neogi | 1. Asked to draw qualitatively the operating line and the difference between absorption and stripping 3. Difference between Biot number and Nusselt number | Koustuv Ray | 1. Residence time and space velocity 2. An MCQ based on space velocity 3. What is reactor design? Why multiple reactions? 4. Assumptions considered in analysis of ideal reactors 5. Velocity profile along the axial length in PFR | Koustuv Ray was calm and was it easy answering him whereas Swati Neogi was seemingly annoyed from the fact that that she couldn't pin | B.Tech (17CH) | |
| 3/12/2021 17:59:45 | | Nihar Joshi | M Kaushal | 1. Top 2 fav. courses 2. Define Streamlines. 3. Define Pathlines. 4. Difference between the above 2 5. Navier Stokes equation and its significance. 3. Which law of Newton is indicated by Navier Stokes equation? | | 1. What are CSTR & PFR? 2. Relation between Thiele modulus and effectiveness factor 3. What is RTD and its significance? 4. How do you calculate RTD? 5. Define average residence time | As Viva profs, both were chill. For M Kaushal he may ask unusual but Go through prev years viva question helps a lot. Try to cover basics of | B.Tech (17CH) | |
| 3/12/2021 18:15:11 | | Suraj Varna | SDE | 1.What is the modules 2.What is skew symmetry matrix, eigen value problem? 3.Why is the difference between pfr and cstr 4.What is the difference between diffusion and dispers 5.What is the difference between combustion and burn 6.What is assumption of McCabe Thiele method? 7.What is difference between diffusion and dispersion? | Sng | 1.What did you study in mechanical operation 2.what is terminal velocity? 3.What did you study in heat transfer? What is boiling point rise Why evaporator operates under vacuum 4.What did you study in fluid mechanics? 5.what is potential flow? 6.Terms involved in Navier Stokes equation? 7.what is streamline 8.How do you solve simultaneous linear algebra | Both professors were chill. | Notes | B.Tech (17CH) |
| 3/12/2021 19:16:12 | | Vatsal | Sirshendu De | 1. What is Mass transfer constant? How to determine it 2. Absorption vs Adsorption 3. Why do we need rate equation in reaction engineering 4. Combustion vs Burning 5. Eigenvalue Problem?? 6. Skew Symmetric Matrix?? | S. Ganguly | 1. What did you study in MechOps? 2. Explain Filtration?? 3. What did you study in Fluid mechanics? 4. Navier Stokes equation - what is the significance? 5. What is Streamline? 6. Stream function? 7. Can you recall a situation where we can't use it? 8. Why is vacuum used in Evaporators? | Not stressful | Previous year viva questions + Google | B.Tech (17CH) |

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| 3/12/2021 19:24:27 | | Navneet Kumar | Jayanta Kumar Basu | What is the difference between ideal and non ideal rea What is RTD. How do we find RTD. What is a parallel reaction. How to design a PFR for a parallel reaction. What is Langmuir Hinselwood Mechanism. Who was the first to develop this mechanism. What is site of a catalyst? What is a tracer? How will you detect the tracer? | Manish kaushal | What is Thiele modulus? What is it's signifies? Heterogenous catalysis rate formula? What is your favorite subject?-Mass transfer Inside distillation column which subject of che What happens at a individual tray in distillatio Draw the boiling curve? Why is the curve negative sloping after nucle nice. Both were very helpful | | notes | B.Tech (17CH) |
| 3/15/2021 11:19:14 | | Tiyasha Mitra | Sonali Sengupta | 1. What is effectiveness factor? 2. What is its range of values? 3. What is the case of its values in exothermic and end 4. What is LMTD? Why is it used? 5. Why is it better? 6. What are the different types of heat exchangers? W 7. What is relative humidity? 8. What is its formula? What are the various relationsh 9. Stefan Boltzmann Law? Some other questions I didn't even understand the me | Sourav Mondal | 1. Stability of a system? 2. How to determine stability? What are the c 3. Steady state and equilibrium differences? 4. Examples to differentiate with regards to re 5. Dimensionless numbers relationships 6. Types of turbulent boundary layers and rel 7. Variations of reynolds number, range, why 8. How can it take place in low velocity wrt in 9. Difference between linear and non linear e Blanked out after this in viva | Positive - tried to give hints at times when I got stuck Negative - Kept on cross questioning every answer till I successfully | Slides of Reaction and Mass transfer, PY Viva questions | B.Tech (17CH) |
| 3/16/2021 9:56:04 | | Krishan garg | Sonali | Hydraulic radius? All about Heat Exchanger(Efficiency, Functioning, Baffl | Sourav Mondal | Favourite subjects (I said Thermo and HT) Asked about thermodynamic laws Some practical examples for entropy decreas Spontaneous Reaction Prandtl number and its formula and usage. | Professors were chill and not in mood of getting you :-P | Last year viva questions and help from friends ^ _ ^ | B.Tech (17CH) |
| 3/16/2021 11:27:38 | | | Gargi Das | What is fugacity? Non Newtonian fluid? Viscosity unit? What is LMTD? | JC | Fundamental function of IPC? | My experience was good. Both prof was in a hurry. They didn't ask many questions. | | B.Tech (17CH) |
| 3/16/2021 12:06:59 | | Prakhar Agarwal | Prof. Monojit | Favorite Subject (I said thermo which was clearly a mi 1. What is 3rd law of thermodynamics? 2. What is chemical potential? 3. What is the purpose of chemical potential? Another subject - said Fluid 4. How will you determine the velocity profile of a fluid 5. What all data do you require for this? 6. Explain step by step how do we solve Navier-stokes Prof. PA Deshpande | | 1. What are the advantages of trays distillato 2. What is the function of trays? 3. What is the temperature at bottom and top 4. How do we determine the number of trays 5. What are the different types of column pac Then came to fluid: 6. Is there any pressure term in Navier stoke 7. Is there any other type of flow apart from v 8. Explain the expression of Newton's law of 9. Can we determine the viscosity for non-ne Both were chill and relaxed. they were asking conceptual questions. | Links, notes, question set of previous yrs viva questions. | | B.Tech (17CH) |

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