

CHEMICAL ENGINEERING BOARD EXAM SAMPLE QUESTIONS - MAY 2016

Day1: Physical and Chemical Principles (30%)

1. Citric and malic acid: what do they have in common?
 2. Effect in mass number and atomic number of alpha emission
 3. Nuclear fission
 4. Who discovered radioactivity?
 5. Definition of radioactivity
 6. Who discovered vulcanized rubber?
 7. Level of toxicity 1:heptachlor 2:dieldrum 3:DDT 4:Arsenic 5: Cr
 8. Colligative Properties: vapor pressure lowering and freezing point depression, kb and kf are not given
 9. Given Pb and Uranium238, 0.3 g of lead and 1.7 g uranium, if the half life of the latter is 4.5×10^9 years and assuming that all the lead comes from the decay of uranium, ESTIMATE HOW OLD IS THE EARTH?
- ☺
10. Definition of atomic mass unit
 11. Collision Problem
 12. Clausius Clapeyron - 2 problems
 13. BOD Problem
 14. COD Problem
 15. Empirical and molecular formula
 16. Balancing equations, iba wala sa choices
 17. Balancing REDOX equations
 18. Electrochemistry
 19. Faradays Law
 20. Reaction Kinetics problems, k and order of reaction, use linear regression, but answer is obvious sa choices, take note yung units ng k
 21. Entropy
 22. Enthalpy
 23. Gibbs Energy
 24. Half life
 25. Common names (cumene)
 26. Organic Chemistry Reaction
 27. Use of EDTA
 28. Air velocity at night and day, ano mas mabilis sa gabi o araw.
 29. pH ng river after the air (acid rain) given depth at area. Hehehe

Day3: General Engineering (30%)

1. Engineering Economy Concepts:
Financial Analysis
Cost Benefit Analysis
Six-Tenths Rule
Break-even
2. Physics: Rectilinear motion, optics, free fall, hertz of moving vehicles
3. Algebra: work and time problem
4. Probability: dice problem
5. Strength of materials 5 problems: flexural stress etc
6. Mechanics: beam, resultant force, vertical force, helical spring (good luck sa formula)
7. Integral Calculus: area and volume ng curve
8. Differential Calculus: rate problem ng funnel
9. Analytical Geometry: concepts ng parabola at hyperbola
10. Differential Equations

Chemical Engineering Board Exam Questions

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Chemical Engineering Board Exam Questions:

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, Chemical Engineering Practice PE Exams N. S. Nandagopal, 2001 The chemical PE exam is an eight hour open book test consisting of 80 multiple choice problems It is administered every April and October Practice PE Exams and Quick Reference which facilitates finding formulas during the exam Two complete 80 problem practice exams Complete solutions provided

Official Gazette Philippines, 2005 **Chemical Engineering Progress**, 2009

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