Virtual University of Pakistan

CHE301

Analytical chemistry and instrumentation

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1. Scatter diagram examples
2. Precipitation mechanism
3. Non polar sorbant
4. Affinity chromatography
5. Properties of precipitate
6. Explain auxochrome
7. Which type of light used in tungsten bulb and deutrium lamp?
8. Equation of Beer's Lambert law.
9. Median with examples.
10. Parts of spectrometer
11. UV spectroscopy, principal and its applications.

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Tpyes of chromatography.
Different type of analyte.

Chiral chromatography. Different
types of error.
Details how to make histogram.
Types of UV spectrophotometer.
Define UV spectroscopy its principal and application.
What are Auxochromes.
What is gravimetry and types.

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Two types ko atomic emmision spectrometry 2 marks
What is Uv spectrometry, princilpe and its applications? 10 marks
What kind of organic molecules chaanges therir properties? 2 marks
Whats happend with the energy when the absorbance of light? 5 marks
What is methid error? 3 marks
What is sample prepration 5 marks
What is MBC in detail? 3 marks
Classification of gevamatric methods? 5 marks baki yad ni ha
Mcqa zayda ter beer lambert law or spectomertey ma sy thy

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How Analytical chemistry is used for the environmental analysis (2)
Source of error (2)
Chracteriatics Absorption band (5)
What is sample preparation (5)
Non polar sorbent (3)
Clarification of chromatography (3
Write equation that show relation between energy and wavelength (3)
Uv spectroscopy , it's principle and application (5)
Parts of spectrometr (3)
Detail on micro bore column (3)
Define sorbent, matrix , analyte, washing , elution solvent (5)

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34 Mcqs
What is beer Lambert's law
What is standard deviation
Write down properties of good precipitates
What do u know about the term Coplymeric sonbert
What energy change occur when an ion or molecule abosrbes light?
What is spectrophotometer?
And long question tha

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What is UV spectrometry.. Write down its principle and applications 10 marks

CHE301 1: Wht is flourescene spectroscopy? 2: Flourescence in tmomic spectrosopy? 3: nmes of UV spectrophotometer? 4: When two sme chromophore re identicl then?2 5: reltionship of bsorbnce nd concentrtion in tomic spetroscopy? 6: Alumin used for? 7: Singlit nd triplet….. Bt403 Finl term pper 2018 1-Gene splicing 2-Multiprtite viruses 3Competent cells 4-Lettuce why used instead of tobcco for humn growing plnts 5- how Gm dds more nutrition vlue to plnts 6-tissue culture types (long)

7- pesticide poisoning types 8- Meristem culture principle 9- losses of plnts due to diseses 10- giberlliene dvntges

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