

Minutes BOS meeting 19/03/2019

Paper I-SBSCHE301

Theory

- i) Unit 2.1: Relaxation time to be introduced along with stop flow method and flash method.
- ii) Transition State theory has to be mentioned in bracket for activated complex theory.
- iii) Introduce proton pump working in the cell
- iv) Introduce validation along with calibration and discuss the difference between calibration and validation.
- v) Unit 3.2 four lectures is too less for the said syllabus.
- vi) Delete polarimetry from the unit.


Practicals

- i) Introduce experiments based on Moving Boundary experiment to determine transport number (or these experiments can be demonstrated by M.Sc students to help better understanding of concepts).
- ii) Use real life examples to explain concepts in physical chemistry. Good examples are in Reaction Kinetics and Dynamics by Houston.
- iii) Teach students to standardize instruments and calibrate glassware.
- iv) Get in contact with 'Borosil Glass Works Ltd' industry and organize a lecture on calibration of glassware.
- v) Use the data acquired during practicals and to evaluate it statistically for accuracy and precision.
- vi) Change one experiment every year.

Paper II- SBSCHE302

Theory

- i) Unit 1.1.2: Solid state inorganic Chemistry is overlapping with Solid state physical chemistry (unit 2.2.2).
- ii) Unit 3.1: In environmental chemistry to include waste management and the use of water hyacinth and experiments on the same.
- iii) Unit 3.1.4: Include atmospheric pollution, CFCs and control measures of oxides of nitrogen.
- iv) Unit 3.2.2.: When referring to metal contamination specify the oxidation states.
- v) Unit 3.2.3: Refer to case studies, causes and prevention in the future.
- vi) Refer to research papers from standard journals.
- viii) Use a scientific example to explain 4R's.
- ix) Add differentiation between reuse and recycle.


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