| Performa Hindu College of Pharmacy, Sonepat | | | | | | |
|---|--|---|---------------------------|---|--|--|
| | | Lesson Plan | | | | |
| Nama of t | Dr Bharat Name of the Faculty Bhushan | | | | | |
| Discipline | | ty Bhushan : Pharmacy | | | | |
| Semester | | | | | | |
| Subject | | : Pharmaceutical chemis | strv-I | | | |
| Lesson Pl | an Durat | | • | 19) | | |
| | | e/practical) per week (in hours): Lecture-03, | , | , | | |
| Week | Theory Practical | | | | | |
| | lecture day | Topic (including assignment/test) | Practical day | Topic | | |
| 4et / T 1 | 1st | Study of acids, bases and buffers | 1st (Batch A) | To study the various apparatus used in laboratory | | |
| 1 st (July. | 2nd | Boric acid*, Hydrochloric acid, strong | 2 nd (Batch B) | -do- | | |
| 3rd | | - | | -do- | | |
| week) | 3rd | Calcium hydroxide, Sodium hydroxide and official buffers. | Batch C | | | |
| <u> </u> | | | | | | |
| | 1st | Antioxidants "Hypophosphorous acid, Sulphur dioxide, Sodium bisulphate | 1st (Batch A) | Limit test for Chloride with given sample | | |
| 2 nd (July. 4th week) | | Sodium metabisulphite, Sodium thiosulphate, Nitrogen and Sodium Nitrite. | | | | |
| | 2nd | | 2nd(Batch B) | -do- | | |
| | 3rd | Gastrointestinal agents Acidifying agents Dilute hydrochloric acid. | Batch C | -do- | | |
| | 1st | Antacids-Sodium bicarbonate, Aluminium hydroxide gel, Aluminium Phosphate, Calcium carbonate, Magnesium | | Limit test for Chloride with given unknown sample | | |
| 3rd(Aug. | 2nd | carbonate, , | 2nd(Batch B) | -do- | | |
| 1st week) | | Magnesium trisilicate, Magnesium oxide, | | -do- | | |
| week) | 3rd | | Batch C | | | |
| | 1st | Combinations of antacid preparations. Saline Cathartics-Sodium potassium | 1st (Batch A) | Limit test for Sulphate with given sample | | |
| | | tartrate and Magnesium sulphate. | | | | |
| 4th(Aug 2nd | 2nd | | 2nd(Batch B) | -do- | | |
| week) | 3rd | Protectives-Talc, Zinc Oxide, Calamine | Batch C | -do- | | |

| | | Zinc stearate, Titanium dioxide, Silicone polymers. | | Limit test for Sulphate with |
|-------------------|-----|---|---------------|---|
| | 1st | | 1st (Batch A) | given unknown sample |
| 5th(Aug. 3rd | 2nd | Antimicrobials and Astringentsâ "Hydrogen peroxide*, Potassium permanganate | 2nd(Batch B) | -do- |
| | | Chlorinated lime, Iodine, Solutions of Iodine, | | |
| week) | 3rd | Povidone-iodine | Batch C | -do- |
| | | | | Time to the form Coult be to make |
| | 1st | Boric acid, Borax. Silver nitrate, | 1st (Batch A) | Limit test for Sulphate with given unknown sample |
| | 2nd | Mercury, Yellow mercuric oxide, | 2nd(Batch B) | -do- |
| 4th week) | 3rd | Sulphur and its compounds "Sublimed sulphur | Batch C | -do- |
| · | | precipitated sulphur, | | |
| | 1st | selenium sulphide | 1st (Batch A) | Limit test for Iron with given sample |
| 7th (Sept. 1st | 2nd | Astringents Alum and Zinc Sulphate | 2nd(Batch B) | -do- |
| week) | | Mild silver | | |
| - | | protein, | | |
| | | Ammoniated | | |
| | 3rd | mercury | Batch C | -do- |

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| oth C 4 | 1st | Strontium chloride, Zinc chloride | | Limit test for Iron with given unknown sample |
| 8 th Sept. 2nd | 2nd | Inhalantsâ"Oxygen, Carbon dioxide, Nitrous oxide | 2nd(Batch B) | -do- |
| week) | 3rd | Respiratory stimulants"Ammonium Carbonate | Batch C | -do- |
| 9th(Sept 3rd Week | 1st | Expectorants and Emetics"Ammonium chloride | 1st (Batch A) | |
| | 2nd | Potassium iodide, Antimony potassium tartrate. | 2nd(Batch B) | |
| | 3rd | Antidotes-Sodium nitrate | Batch C | |
| 10 th Sept. | 1st | Electrolytes used for replacement therapy | | Limit test for Iron with given unknown sample |
| 4th | 2nd | Sodium chloride and its preparations, Potassium chloride and its preparations | 2nd(Batch B) | -do- |
| week) | 3rd | Physiological acid-base balance and electrolytes | Batch C | -do- |
| | 1st | Sodium acetate, Potassium acetate | 1st (Batch A) | Demonstration of limit test for Arsenic |
| 11th(Oct. 1st | 2nd | Sodium bicarbonate injection, Sodium citrate, Potassium citrate | 2nd(Batch B) | -do- |
| week) | 3rd | Sodium lactate injection, Ammonium chloride and its injection | Batch C | -do- |
| | 1st | Combination of oral electrolyte powders and solutions | 1st (Ratch A) | To determine the normality of Sodium carbonate |
| 12th(Oct 2nd week) | 2nd | Inorganic Official compounds | 2nd(Batch B) | |
| | 3rd | Iron, Iodine 3 rd &4 th Week of Oct. 1 st Sessional exams | Batch C | -do- |
| 13th(Nov | 1st | Calcium, Ferrous Sulfate | 1st (Batch A) | To determine the normality of Sodium bi carbonate |
| 1st | 2nd | Calcium gluconate. | 2nd(Batch B) | -do- |

| week) | 3rd | Radio pharmaceuticals | Batch C | -do- |
|--|-----------------|--|--------------------|-------------------------------------|
| 14 th (Nov 2 nd (Week) | 1st | Radio activity-Alpha, Beta and Gamma Radiations | 1st (Batch A) | Standardisation of Pot. permangnate |
| | 2nd | Biological effects of radiations | 2nd(Batch B) | -do- |
| | 3rd | Measurement of radio activity | Batch C | -do- |
| 15th (Nov. | 1st | Radio isotopes their uses | Batch A | Assay of Ferrous Sulphate |
| 3 rd Week) | | Radio isotopes their uses | | Assay of Perious Surpliate |
| | 2nd | Storage and precautions with special reference to the official preparations | Batch B | -do- |
| | 3rd | G. M. Counter | Batch C | -do- |
| | 1st | Radio opaque Contrast media"Barium sulfate. | | |
| 16 th (Nov. 4 th Week) | 2nd | Quality control of Drugs and Pharmaceuticals | Batch A Batch B | Assay of Copper Sulphate -do- |
| | 3rd | Importance of quality control | Batch C | -do- |
| 17 th (Dec. 1 st Week) | 1 st | Significant errors, methods used for quality control | Batch A | Assay of Magnesium sulphate |
| | 2nd | Sources of impurities in Pharmaceuticals | Batch B | -do- |
| | 3rd | Sources of impurities in Pharmaceuticals | Batch C | -do- |
| 18th (Dec. 2 nd Week) | 1 st | Limit test for Chloride | Batch A | Assay of Borax |
| | 2nd | Limit test for Chloride | Batch B | -do- |
| | 3rd | Limit test for Sulphate | Batch C | -do- |
| | | 3 rd &4 th Week of Dec. 2 nd Sessional exams and winter break upto 1 st Week of Jan. | | |
| 19th (Jan. 2 nd Week) | 1st | Limit test for Sulphate | Batch A | Assay of Hydrogen peroxide |
| | 2nd | Limit test for Iron | Batch B | -do- |
| | 3rd | Limit test for Iron | Batch C | -do- |
| 20th (Jan. 3 rd Week) | 1st | Limit test for Heavy metals | Batch A | Viva |
| | 2nd | Limit test for Arsenic | Batch B | -do- |

| | 3rd | Limit test for arsenic | Batch C | -do- |
|---|-----|--|---------|---------------------------------------|
| | 1st | Identification of cat ions | Batch A | Identification of Calcium gluconate |
| 21th (Jan. 4 th Week) | 2nd | Identification of cat ions | Batch B | -do- |
| | 3rd | Identification of an ions | Batch C | -do- |
| 22nd (Feb. 1 st Week) | 1st | Identification of an ions | Batch A | Identification of Sodium bi carbonate |
| | 2nd | Dental Products"Sodium Fluride | Batch B | -do- |
| | 3rd | Dental Products Stannous Flouride | Batch C | -do- |
| 23 rd (Feb. 2 nd Week) | 1st | Calcium carbonate, Sodium metaphosphate, Dicalcium phosphate | Batch A | Viva |
| | 2nd | Sessional rivision | Batch B | -do- |
| | 3rd | Sessional rivision | Batch C | -do- |
| 24 th Feb. 3 rd Week) | 1st | Protectives and Adsorbents | Batch A | Identification of Hydrogenper oxide |
| | 2nd | Bismuth subcarbonate and Kaolin | Batch B | -do- |
| | 3rd | Protectives and Adsorbents | Batch C | -do- |
| 25 th Feb. 4 th Week | | Revision | | |
| 26 th (March 1 st and 2 nd | | | | |
| Week) | 1st | Revision and Class tests | Batch A | Viva |
| | 2nd | | Batch B | -do- |
| | 3rd | 3 rd &4 th Week of March. 3 rd Sessional exams. | Batch C | -do- |