

# **SHAMBHUNATH INSTITUTE OF PHARMACY**

**JHALWA ALLAHABAD**

**IMPORTANT QUESTIONS BANK**

**PHARMACEUTICAL INORGANIC CHEMISTRY (IPC)**

**RPH-101/1<sup>ST</sup> SEM**

**SUBJECT INCHARGE: MR. SAGAR BANSAL**

**ASST. PROF. /SIP**

## **UNIT 1:**

1. WHAT ARE DIFEERENT SOURCES OF PHARMACEUTICAL IMPURITIES?
2. HOW CAN WE IDENTIFY AND CONTROL PHARMACEUTICAL IMPURITIES?
3. EXPLAIN LIMIT TEST FOR IRON AND CHLORIDE.
4. DESCRIBE IN DETAIL LIMIT TEST FOR ARSENIC.
5. EXPLAIN LIMIT TEST FOR LEAD AND SULPHATE.
6. EXPLAIN VARIOUS TYPES OF PHARMACEUTICAL ACCEPTABLE GLASSES.
7. WHAT ARE INHALANTS? ALSO WRITE DOWN THE PREPARATION, PROPERTIES AND USES OF NITROUS OXIDE?

## **UNIT 2:**

1. WHAT ARE TOPICAL AGENTS? CLASSIFY THEM BY GIVING EXAMPLES.
2. WHAT ARE PROTECTIVES? WRITE DOWN THE PREPARATION, PROPERTIES AND USES OF KAOLIN OR CALAMINE.
3. DEFINE ASTRINGENTS? WRITE DOWN THE PREPARATION, PROPERTIES, USES AND IDENTIFICATION TEST OF ANY ONE OF ITS COMPOUND?
4. DOWN THE PREPARATION, PROPERTIES AND USES OF THE FOLLOWING:
  - A) BORIC ACID
  - B) H<sub>2</sub>O<sub>2</sub>
  - C) POVIDONE IODINE

5. WHAT ARE DENTIFRICES? WHAT DISEASES ARE RELATED TO DENTAL OR ORAL PROBLEMS? ALSO WRITE DOWN THE PREPARATION, PROPERTIES AND USES OF DICALCIUM PHOSPHATE AND SODIUM FLUORIDE?
6. WHAT ARE ANTIOXIDANTS? HOW SODIUM METABISULPHITE ACTS AS ANTIOXIDANT?

### **UNIT 3:**

1. DEFINE ANTACIDS? ALSO WRITE DOWN THE PREPARATION, PROPERTIES, IDENTIFICATION TEST AND USES OF THE FOLLOWING COMPOUNDS:
  - A) ALUMINIUM HYDROXIDE
  - B) CALCIUM CARBONATE
  - C) MAGNESIUM HYDROXIDE
2. WHAT DO YOU MEAN BY COMBINED ANTACIDS?
3. DEFINE CATHARTICS AND ITS TYPES. EXPLAIN THE COMPLETE INORGANIC PHARMACEUTICAL CHEMISTRY OF MAGNESIUM SULPHATE?
4. WHAT ARE PROTECTIVES AND ADSORBENTS?
5. WHAT IS ACTIVATED CHARCOAL? EXPLAIN HOW ARE THEY PREPARED?
6. DEFINE EXPECTORANTS? ALSO WRITE DOWN THE PREPARATION, PROPERTIES AND USES OF ANY ONE OF ITS COMPOUND.
7. DEFINE RESPIRATORY STIMULANTS? ALSO WRITE DOWN THE PREPARATION, PROPERTIES AND USES OF ANY ONE OF ITS COMPOUND.

### **UNIT 4:**

1. WHAT ARE THE MAJOR EXTRA AND INTRACELLULAR ELECTROLYTES?
2. WHAT ARE THE MAJOR PHYSIOLOGICAL IONS OF THE BODY?
3. EXPLAIN HOW SODIUM AND POTASSIUM DEFICIENCY IN THE BODY CAN BE TREATED?
4. WHAT DO YOU MEAN BY COMBINATION THERAPY?
5. DEFINE ORS AND ITS COMPOSITION?
6. WHAT ARE HAEMATINICS? EXPLAIN WITH THE HELP OF EXAMPLE?
7. WRITE DOWN THE PREPARATION, PROPERTIES AND USES OF FERROUS SULPHATE.
8. WHAT IS THE ROLE OF VARIOUS MAJOR MINERALS SUPPLEMENTS IN THE BODY?

## **UNIT 5:**

1. DEFINE RADIOACTIVITY AND ITS USE AS RADIOPHARMACEUTICALS.
2. EXPLAIN RADIATION DOSIMETRY AND ALSO WRITE DOWN ABOUT DIFFERENT UNITS USE FOR MEASURING RADIATIONS?
3. WHAT ARE DIFFERENT HAZARDS RELATED TO RADIOPHARMACEUTICALS?
4. EXPLAIN VARIOUS PRECAUTIONS TO BE TAKEN WHILE HANDLING RADIOPHARMACEUTICALS
5. EXPLAIN HOW RADIATION CAN BE MEASURED USING GEIGER-MULLER COUNTER APPARATUS?
6. WHAT IS THE APPLICATION OF RADIOPHARMACEUTICALS?
7. WHAT ARE CHELATING AGENTS? EXPLAIN ITS PHARMACEUTICAL IMPORTANCE WITH THE HELP OF EXAMPLES?
8. WHAT ARE ANTIDOTES? HOW DOES THEY PLAY ROLE AS PHARMACEUTICAL AGENT, EXPLAIN USING EXAMPLES?