

3rd year b pharmacy question paper

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3rd Year B. Pharmacy Question Paper and Detailed Answers

Paragraph 1: Pharmaceutical Chemistry-I

- **Question:** Discuss the synthesis, reactions, and therapeutic uses of sulphonamides.
- **Answer:** Sulphonamides are antimicrobial agents derived from sulphanilamide and contain a sulphonamide group ($-\text{SO}_2\text{NH}_2$). They inhibit bacterial growth by competitively binding to dihydropteroate synthase, an enzyme involved in folate synthesis. Sulphonamides are effective against a wide range of bacteria, including *Streptococcus pneumoniae*, *Staphylococcus aureus*, and *Escherichia coli*.

Paragraph 2: Pharmaceutical Microbiology

- **Question:** Describe the characteristics and pathogenicity of *Staphylococcus aureus*.
- **Answer:** *Staphylococcus aureus* is a Gram-positive, catalase-positive, coagulase-positive bacterium. It is a common cause of skin and soft tissue infections, such as boils, abscesses, and cellulitis. In addition, *S. aureus* can cause more severe infections, including pneumonia, meningitis, and osteomyelitis. *S. aureus* produces a variety of virulence factors, including toxins, enzymes, and biofilm.

Paragraph 3: Pharmaceutics-I

- **Question:** Explain the factors affecting drug absorption from the gastrointestinal tract.
- **Answer:** Drug absorption from the gastrointestinal tract is influenced by several factors, including:
 - Physicochemical properties of the drug (e.g., solubility, ionization)
 - Formulation of the drug product (e.g., particle size, presence of excipients)
 - Physiological factors (e.g., gastric pH, intestinal motility)
 - Pathophysiological factors (e.g., presence of disease, malnutrition)

Paragraph 4: Pharmaceutical Technology-I

- **Question:** Describe the different methods of tablet coating and their applications.
- **Answer:** Tablet coating involves applying a layer of material around the tablet core to improve its stability, protect it from external factors, modify its release, and enhance its appearance. Common coating methods include:
 - Sugar coating: Provides a smooth, glossy finish and protects the tablet from moisture.
 - Film coating: Produces a thin, controlled-release barrier around the tablet.
 - Enteric coating: Designed to dissolve only after reaching the small intestine, protecting the tablet from degradation in the stomach.

Paragraph 5: Pharmacognosy and Phytochemistry

- **Question:** Discuss the active constituents and therapeutic uses of Rauwolfia serpentina.
- **Answer:** Rauwolfia serpentina is an important medicinal plant containing alkaloids with antihypertensive and sedative effects. The main active constituents are reserpine, ajmaline, and serpentine. Reserpine is a potent hypotensive agent used to treat mild to moderate hypertension. Ajmaline

has cardiac stimulant properties and is used in the treatment of arrhythmias.
Serpentine has sedative and anticonvulsant effects.

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