



SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES
INDUSTRIAL PHARMACY I
QUESTION BANK

UNIT 4

Parenterals: Definition, types, advantages and limitations. Preformulation factors and essential requirements, vehicles, additives, importance of isotonicity

2-Mark Questions:

1. Define parenteral products. (TNMGR Oct 2007)
2. What is isotonicity? (TNMGR March 2020)

5-Mark Questions:

1. Write the advantages and disadvantages of parenteral products. (TNMGR Oct 2007)
2. Explain the various preformulation factors for parenteral products. (TNMGR Apr 2009)
3. Describe the different types of vehicles used in parenteral products. (TNMGR Apr 2010)
4. Explain the different additives used in parenteral formulations. (TNMGR March 2020)

10-Mark Questions:

1. Discuss the essential requirements and various additives used in parenteral products. (TNMGR Apr 2011)
2. Explain the preformulation factors and essential requirements of parenteral products. (TNMGR Oct 2012)
3. What are the different types of vehicles used in parenteral products? Elaborate on the importance of isotonicity. (TNMGR Apr 2013)

b. Production procedure, production facilities and controls, aseptic processing

2-Mark Questions:

1. What is aseptic processing? (TNMGR Oct 2008)
2. Mention two controls in the production of parenteral products. (TNMGR Apr 2012)

5-Mark Questions:

1. Describe the production facilities and controls required for parenteral products. (TNMGR Oct 2008)
2. Explain the production procedure for a small volume parenteral. (TNMGR Apr 2012)

10-Mark Questions:

1. Discuss the production procedure and controls for parenteral products. (TNMGR Apr 2014)
2. Write in detail about the production facilities for parenteral formulation. (TNMGR March 2020)
3. Explain the concept of aseptic processing and its importance in the production of sterile products. (TNMGR Oct 2015)

c. Formulation of injections, sterile powders, large volume parenterals and lyophilized products.**2-Mark Questions:**

- What is lyophilization? (TNMGR Apr 2007)
- What are Large Volume Parenterals (LVPs)? (TNMGR Oct 2011, TNMGR March 2020)
- Define sterile powders. (TNMGR March 2020)

5-Mark Questions:

- Write a note on the formulation of sterile powders. (TNMGR Apr 2007)
- Describe the formulation of Large Volume Parenterals. (TNMGR Oct 2011)
- Write notes on Small Volume Parenterals. (TNMGR March 2020)

10-Mark Questions:

- Discuss the formulation of injections and lyophilized products. (TNMGR Apr 2016)
- Explain the formulation of Large Volume Parenterals and sterile powders. (TNMGR Oct 2017)

d. Containers and closures selection, filling and sealing of ampoules, vials and infusion fluids. Quality control tests of parenteral products.**2-Mark Questions:**

- What is a pyrogen? (TNMGR Apr 2008)
- What is the LAL test? (TNMGR March 2020)

5-Mark Questions:

- Describe the selection of containers and closures for parenteral products. (TNMGR Apr 2008)
- Explain the quality control tests for pyrogens and sterility. (TNMGR Oct 2010)
- Write notes on glass containers used in parenterals. (TNMGR March 2020)

10 Mark Questions:

- Explain the various quality control tests performed on parenteral products. (TNMGR Apr 2018)
 - Discuss the filling and sealing of ampoules, vials, and infusion fluids. (TNMGR Oct 2019)
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Ophthalmic Preparations**• 2-Mark Questions:**

- What are ophthalmic preparations? (TNMGR Oct 2009)
- Mention two formulation considerations for eye drops. (TNMGR Apr 2015)
- What are eye drops? (TNMGR March 2020)

• 5-Mark Questions:

- Write a note on the formulation of eye ointments. (TNMGR Oct 2009)
- Explain the evaluation tests for ophthalmic preparations. (TNMGR Apr 2015)
- Write notes on eye ointments. (TNMGR March 2020)

• 10-Mark Questions:

- Discuss the formulation considerations and methods of preparation for eye drops and eye lotions. (TNMGR Oct 2016)
- Explain the various evaluation tests and labeling requirements for ophthalmic preparations. (TNMGR Apr 2017)
- Write the formulation considerations, method of preparation, labeling procedures, and evaluation of eye drops. (TNMGR March 2020)