

B.Pharm III Year I Semester (R15) Supplementary Examinations February 2022
PHARMACEUTICAL TECHNOLOGY – II

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Write a note on polymers to be used for coating of tablets.
 - (b) Write the solvents used in coating of polymers.
 - (c) What are all the disadvantages of hard gelatine capsule?
 - (d) Write a note on various sizes of hard gelatine capsules.
 - (e) Define core material in microencapsulation.
 - (f) What are all the reasons, core is coated in microcapsules?
 - (g) Write the source of contamination of sterile products.
 - (h) What you mean by I.V bolus administration?
 - (i) What are all the materials used for packing of pharmaceuticals?
 - (j) Write a note on various plastics used for pharmaceutical packing.

PART – B
(Answer all the questions: 05 X 10 = 50 Marks)

- 2 Write in detail different defects of film coated tablets.
- OR**
- 3 Discuss in detail film coating process & its variables on tablets.
- 4 Give an account on filling operations of hard gelatine capsules.
- OR**
- 5 Write in detail soft gelatine capsules stability test & storage condition.
- 6 Draw and explain air suspension process of micro encapsulation.
- OR**
- 7 Explain coacervation phase separation by salt addition & polymer-polymer interaction with diagram.
- 8 Discuss in detail laminar air flow clean bench with diagram.
- OR**
- 9 Write the freeze-dried products & parenteral suspensions formulation.
- 10 Write in detail types of glass used in packaging of pharmaceuticals.
- OR**
- 11 Discuss in detail drug plastic considerations.

B.Pharm III Year I Semester (R15) Supplementary Examinations July/August 2022

PHARMACEUTICAL TECHNOLOGY – II

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Enlist different types of tablet.
 - Give different parts of tablet compression machine.
 - Write advantages and disadvantages of capsule.
 - Write various size of capsules and their volume.
 - Write importance of microencapsulation.
 - Write advantages and disadvantages of spray dryer.
 - Write any one method for adjustment of tonicity.
 - Enlist evaluation of parenteral products.
 - Enlist methods of packaging of liquids.
 - Write criterion of packaging materials used in pharmaceutical.

PART – B
(Answer all the questions: 05 X 10 = 50 Marks)

- 2 (a) Explain methods of granulation.
(b) Write a short note on sugar coating of tablet.
- OR
- 3 (a) Explain various defects in tablet coating with their reasons and remedies.
(b) Write a note on processing problem in tableting.
- 4 (a) Explain automated hard gelatin capsule filling process.
(b) Write short notes on auger filling method.
- OR
- 5 (a) Give the manufacturing process of soft gelatin capsule.
(b) Write a note on physical stability of capsule.
- 6 (a) Write about microencapsules by polymerization.
(b) Explain the formulation of microcapsule by using coacervative phase separation method.
- OR
- 7 (a) Write a note on air suspension technique of microencapsules.
(b) Give short explanation on evaluation of microencapsules.
- 8 (a) Give the importance of preformulation.
(b) Explain the process of lyophilization.
- OR
- 9 (a) Evaluation of parenteral emulsions.
(b) Write sources of contamination in aseptic areas and method of prevention.
- 10 (a) Write various factors influencing the choice of container.
(b) Write method of evaluation of pharmaceutical packaging products as per IP.
- OR
- 11 (a) Write on stability aspects of packaging products.
(b) Write method of packaging of semisolid dosage form.

B.Pharm III Year I Semester (R15) Supplementary Examinations January 2023

PHARMACEUTICAL TECHNOLOGY – II

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Write the solvents used in coating of polymers.
 - (b) What is the need of enteric coating of tablets?
 - (c) Write the properties of gelatine for capsule shell preparation.
 - (d) What is auger filling method?
 - (e) How will you evaluate size and shape of micro encapsules?
 - (f) Give examples for the water insoluble resins used in microencapsulation.
 - (g) What you mean by I.V bolus administration?
 - (h) Write a note on non-aqueous vehicles for parenteral products.
 - (i) Write a short note on metal containers.
 - (j) What is good solvent & poor solvent?

PART – B

(Answer all the questions: 05 X 10 = 50 Marks)

- 2 Discuss in detail film coating process & its variables on tablets.
- OR**
- 3 Write in detail wet granulation process.
- 4 Write about various classifications of softgels.
- OR**
- 5 Describe air suspension technique with neat diagram.
- 6 Discuss in detail about pan coating technique.
- OR**
- 7 Explain the method of microencapsulation by spray drying - spray congealing process.
- 8 Write the freeze-dried products & parenteral suspensions formulation.
- OR**
- 9 Explain the filling of powders in capsule shells.
- 10 Discuss in detail drug plastic considerations.
- OR**
- 11 Write briefly about different types of closures used in pharmaceuticals.

B.Pharm III Year I Semester (R15) Supplementary Examinations August 2021
PHARMACEUTICAL TECHNOLOGY – II

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Define maillard reaction and how to prevent it.
 - Write the official standard limits for weight variation test of tablets.
 - What is auger filling method?
 - Write the importance of minim gram factor.
 - Define microencapsulation and their advantages.
 - Define spray congealing method and its drawbacks.
 - Define cryoscopic method with its significance.
 - Classify antioxidants with suitable examples.
 - What is good solvent & poor solvent?
 - Write the official requirements for containers.

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 (a) Explain the classification of tablets with suitable examples.
(b) Explain the steps involved in sugar coating of tablets.

OR

- 3 (a) Write the formulation excipients of hard gelatin capsules.
(b) Define soft gelatin capsules and manufacturing of soft gels.

UNIT – II

- 4 (a) Describe air suspension technique with neat diagram.
(b) Explain the evaluation of microcapsules.

OR

- 5 (a) What are the sources of contamination and methods of prevention?
(b) Describe the lyophilization method for the preparation of sterile powders.

UNIT – III

- 6 (a) Classify glass materials with their advantages and disadvantages.
(b) Write the evaluation tests of glass materials.

OR

- 7 (a) Write a note on enteric polymers used in tablet coating.
(b) Illustrates perforated coating pan with neat labelled diagram.

UNIT – IV

- 8 (a) Explain the filling of powders in capsule shells.
(b) What are the equality control tests of capsules?

OR

- 9 (a) Define microencapsulation and their advantages and disadvantages.
(b) Write a note on polymerization complex emulsion method.

UNIT – V

- 10 (a) Write a note on containers and closures for parenteral products.
(b) Write a note lyophilization method.

OR

- 11 (a) Classify metal containers.
(b) Write a short note on packaging specifications.

B.Pharm III Year I Semester (R15) Supplementary Examinations February 2022
PHARMACEUTICAL TECHNOLOGY – II

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PART – B
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- OR**
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- OR**
- 7 Explain coacervation phase separation by salt addition & polymer-polymer interaction with diagram.
- 8 Discuss in detail laminar air flow clean bench with diagram.
- OR**
- 9 Write the freeze-dried products & parenteral suspensions formulation.
- 10 Write in detail types of glass used in packaging of pharmaceuticals.
- OR**
- 11 Discuss in detail drug plastic considerations.

Code: 15R00403

B.Pharm II Year II Semester (R15) Supplementary Examinations September 2021
PHARMACEUTICAL TECHNOLOGY – I

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Enlist organoleptic additives.
 - (b) Write about polymerization.
 - (c) What are emulsifying agents?
 - (d) Write formulation of dry syrup.
 - (e) Which ideal requirement of a suppository base.
 - (f) Mention two factors influencing the penetration of drugs.
 - (g) Define aerosols.
 - (h) Write pharmaceutical application of aerosols.
 - (i) What is whole human blood?
 - (j) What are plasma substitute.

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 Explain the physicochemical properties of the drug that influences formulation development.
- OR
- 3 Explain the stability study for a finished product.

UNIT – II

- 4 What are types of additives used in liquid dosage forms with examples.
- OR
- 5 Explain the preparation and evaluation of dry syrup.

UNIT – III

- 6 Discuss mechanism of drug penetration and factors influencing drug penetration.
- OR
- 7 Explain packaging and evaluation of suppositories.

UNIT – IV

- 8 Discuss about quality control test for aerosols.
- OR
- 9 Explain manufacturing and filling of aerosols.

UNIT – V

- 10 Explain about collection, processing and storage of whole human blood.
- OR
- 11 Explain ideal requirements of PVP, dextran as per IP to maintain blood pressure.
