

D3101215

GOVERNMENT OF KARNATAKA

(BOARD OF EXAMINING AUTHORITY)

D. Pharm. Part – I Examinations (ER-91), December-2015

PHARMACEUTICS-I

Time: 3 Hours

Max. Marks: 80

Note: Answer any **TEN** questions from **Section – A** and **THREE** from **Section – B** including Question No. 14, which is compulsory

SECTION – A

4X10=40

1. Classify dosage form with examples.
2. Give a brief history of Indian Pharmacopoeia.
3. Enumerate the factors affecting size reduction.
4. Write a note on Ayurvedic dosage forms
5. Explain the importance of isotonicity adjustment in the formulation of large volume parenterals.
6. Define and classify immunity.
7. Differentiate vaccines and sera.
8. What is Reverse Percolation?
9. Explain the preparation of soft gelatin capsules.
10. Give the metric equivalents for a) one grain b) one minim c) one fluid ounce d) one table spoonful.
11. Write a note on rubber closures.
12. Explain the principle of freeze drying and give its applications
13. Enumerate the factors affecting filtration.

SECTION – B

14. a) Describe the various granulation techniques employed in the production of tablet.
b) Describe the disintegration test for compressed tablets. **8+6**
- OR**
- a) Describe the preparation of small pox vaccine
b) Explain gaseous sterilization **8+6**
15. Describe the construction and working of a) Ball mill b) fluidized bed dryer. **6+7**
16. a) Explain steam distillation. Give its applications.
b) Describe the preparation of water for injection I.P. **7+6**
17. Write notes on
a) Filter aids b) Desirable features of a container c) Evaporating Pan **4+5+4**

D3100120

GOVERNMENT OF KARNATAKA
(BOARD OF EXAMINING AUTHORITY)

D. Pharm. Part – I Examinations (ER-91), January-2020

PHARMACEUTICS-I

Max. Marks: 80

Time: 3Hours

Note: Answer any TEN questions from Section – A and THREE from Section – B including Question No. 14, which is compulsory

SECTION – A

4 x 10 = 40

1. Define a) Lotions b) Gargles c) Enema d) Syrup
2. Write the approximate capacity in mg of capsule having number 000, 00, 0, 1, 2, 3, 4, 5.
3. Write a note on distillation under reduced pressure.
4. What are official standards for powders?
5. Write the advantages and disadvantages of plastic containers.
6. Write a note on Silverson mixer homogeniser.
7. Explain the construction and working of meta filter.
8. Write a note on a) Infusion b) Decoction process.
9. Explain sterilization method by radiation.
10. Describe briefly the method of preparation of water for injection IP.
11. Discuss the construction and working of spray dryer.
12. How will you sterilize transfusion fluid.
13. Define tablets. Write any four advantages of tablets.

SECTION – B

14. A. Describe the following
a) Dissolution test b) Film coating (8+6)
- B. a) Give a brief account of the development of Indian Pharmacopoeia. (8+6)
b) Explain with the help of a diagram the principle and working of Hammer mill
15. a) What are soft gelatin capsules? Write about method of filling of soft gelatin capsules. (6+7)
b) Write a note on double cone blender
16. a) Explain the construction, working, advantages and disadvantages of filter press
b) Write the principle and working of fractional distillation (7+6)
17. Write a note on a) Tray dryer b) Autoclave (6+7)

**GOVERNMENT OF KARNATAKA
(BOARD OF EXAMINING AUTHORITY)**

D. Pharm. Part – I Examinations (ER-91), April -2016

PHARMACEUTICS-I

Time: 3 Hours

Max. Marks: 80

Note: Answer any **TEN** questions from **Section – A** and **THREE** from **Section – B** including Question No. 14, which is compulsory

SECTION – A

4 x 10=40

1. Write briefly the history of Indian Pharmacopoeia.
2. Write briefly about sterilization by radiation.
3. Write a note on working of fluidized bed dryer.
4. Define homogenisation. Write the working of Silverson mixer cum emulsifier.
5. Enlist any four ayurvedic dosage forms. Explain any one.
6. Differentiate between hard gelatin and soft gelatin capsules.
7. List the advantage and disadvantage of plastic as a material for containers.
8. How will you prepare 600ml of 40% alcohol from 90% alcohol?
9. What is sieve? State the different official grades of powders.
10. Draw a neat diagram and explain the working of colloid mill.
11. Describe the construction of sintered glass filter.
12. Classify different dosage forms.
13. Describe the construction and working of evaporating pan.

SECTION – B

14. a) Define size reduction. Discuss the factors affecting size reduction.
 - b) Discuss the construction and working of Hammer mill and Disintegrator 7+7
- OR**
- a) Explain the construction and working of a still used for preparing water for injection.
 - b) With a help of a neat labelled diagram describe in detail percolation process 7+7
15. a) Define and classify tablets with examples.
 - b) Discuss the role of various excipients used in the formulation of tablets with examples. 5+8
16. Write short notes on the following
 - a) Hot air oven b) Hard gelatin capsules c) Meta filter. 5+5+3
 17. a) Mention the differences between active and passive immunization.
 - b) Describe the method of preparation of Diphtheria antitoxin. 5+8

GOVERNMENT OF KARNATAKA
(BOARD OF EXAMINING AUTHORITY)
 D Pharm. Part-**II** Examinations (ER-91), January 2019
PHARMACEUTICS -I

Time : 3 Hours

Max Marks: 80

Note: Answer any **TEN** questions from **Section A** and **THREE** questions from **Section B**, including Question No 14, which is compulsory.

SECTION - A**4 x 10=40**

1. Define any two new drug delivery system.
2. Define the term a) Pharmacopoeia b) Isotonic solutions.
3. What are Aerosols? Write the advantages of aerosols.
4. Explain the construction and working of Hammer mill.
5. Write the official standards for powders.
6. Write in detail Silverson mixer homogenizer.
7. Define Filtration. Add a note on filter aids.
8. Describe the simple maceration process for extraction.
9. Write short notes on a) Sublimation b) Desiccation.
10. Explain the principle of steam distillation.
11. Write a note on hot air oven.
12. How will you differentiate between hard gelatin and soft gelatin capsule?
13. Define the term a) Immunity b) Vaccine.

SECTION - B

14. A) Define Tablets. Classify the different types of tablets. (2+6)
 B) Discuss the theory and working of freeze dryer. (6)
- OR**
- A) Write a note on moist heat sterilization. (4+6+4)
 B) Method of filling soft gelatin capsules.
 C) Preparation of BCG vaccine.
15. A) Write the advantages, disadvantages and composition of glass container. (2+2+4)
 B) Describe the construction and working of cyclone separator. (5)
16. A) Explain the factors which affect the rate of filtration. (8)
 B) Write a note on evaporating pan. (5)
17. A) Give the history of the Pharmacopoeia of India. (8)
 B) Write a note on double cone blender. (5)

GOVERNMENT OF KARNATAKA
BOARD OF EXAMINING AUTHORITY
D. Pharm. Part – I Examinations (ER-91), June - 2019
PHARMACEUTICS - I

Time : 3 Hrs

Max. Marks: 80

Note: Answer any **TEN** questions from **Section – A** and **THREE** from **Section – B** including Question No. 14, which is compulsory

SECTION-A

4 X 10 =40

- 1) Difference between syrups & elixirs.
- 2) Explain the salient features of IP 1996.
- 3) Calculate the volume of 95% alcohol required to prepare 600ml of 70% alcohol by allegation method.
- 4) Explain the ideal characteristics of good container.
- 5) Explain the construction and working of fluid energy mill with a neat diagram.
- 6) Discuss any two factors influencing the rate of filtration.
- 7) Explain simple maceration process for organized drugs.
- 8) Explain the method of preparation of ammoniated mercury. Mention its use.
- 9) What are sieves? Explain the different grades of powders
- 10) Write a short note on sublimation.
- 11) Explain the principle involved in the process of fractional distillation.
- 12) Define dosage form. Classify in detail with example.
- 13) Explain the disintegration test for compressed tablets.

SECTION-B

- 14) a) Describe the construction and working of fluidized bed drier.
b) Define the term sterilization. Describe the method of sterilization by moist heat in detail. (7+7=14)
- OR**
- A) Give in brief the various steps involved in the manufacturing of compressed tablets.
B) Mention the quality control tests for tablets. (10+4=14)
 - 15) A) Explain the process of Soxhlet extraction.
B) Write a note on filter leaf. (5+8=13)
 - 16) A) Explain the construction and working of a planetary mixer and triple roller mill.
B) Describe the working of film evaporator with the help of neat diagram. (8+5=13)
 - 17) A) Explain the method of preparation of small pox vaccine.
B) Define immunity. Write in detail on active immunity and passive immunity. (8+5=13)

D3100517

GOVERNMENT OF KARNATAKA
(BOARD OF EXAMINING AUTHORITY)

D. Pharm. Part – I Examinations (ER-91), May-2017

PHARMACEUTICS-I

Time: 3Hours

Max. Marks: 80

Note: Answer any TEN questions from Section – A and THREE questions from Section – B including Question No. 14, which is compulsory

SECTION – A

4 x 10 = 40

1. Enumerate the factors affecting evaporation.
2. Write a note on new drug delivery systems
3. How will you mix 95% v/v alcohol, 60% v/v alcohol and 50% v/v to get 70% v/v alcohol.
4. Explain the construction and working of a triple roller mill.
5. Give the advantages and disadvantages of Plastic as a material of containers.
6. Describe size separation by sieving.
7. Explain infusion and decoction processes.
8. List the advantages of coating tablets.
9. Write a note on film coating.
10. Give the special applications of soft gelatine capsules.
11. Differentiate Filtration and Clarification.
12. Enumerate excipients used in the formulations of tablets with examples.
13. Write a note on Filter media.

SECTION –B

14. a) Explain Continuous hot extraction with the help of a neat diagram
b) Describe the preparation of Water for Injection 7 +7
or
a) Define Sterilization. List the methods of sterilization 2+4
b) Explain mechanical methods of sterilization 8
15. a) Explain Freeze drying process with the help of a neat diagram.
b) Explain Disintegration Test I.P 7 +6
16. Explain the construction and working of
a) Silverson Mixer cum Emulsifier b) Tray Dryer c) Hot air Oven 5 +4+ 4
17. Write notes on
a) Sugar coating b) Sizes of Hard gelatine Capsule Shells c) Isotonic Solutions 5 + 4 + 4

D3100518

GOVERNMENT OF KARNATAKA
(BOARD OF EXAMINING AUTHORITY)
D. PHARM PART I EXAMINATIONS (ER – 91), MAY- 2018
PHARMACEUTICS I

TIME: 3 Hrs.

Max Marks: 80

NOTE: Answer any TEN questions from Section – A and THREE from Section – B including Question No. 14, which is compulsory.

SECTION A

4 X 10 = 40

01. Classify solid and semi-solid dosage forms.
02. Explain elutriation method.
03. Give the principle involved in the fractional distillation.
04. Explain the construction and working of planetary mixer with the help of a neat diagram.
05. Give the different sizes of hard gelatin capsules.
06. Write a note on water for injection I.P.
07. Write in brief history of Pharmacopoeia of India.
08. Differentiate between active and passive immunity.
09. What is reserve percolation?
10. Describe the factors affecting size reduction.
11. Write a note on Meta filter.
12. Define a) sublimation b) evaporation.
13. Write the advantages and disadvantages of glass as a packing material.

SECTION B

14. A) Explain the various excipients used in the formulation of tablets.
B) Write a note on any two quality control tests for tablets 10+4
- OR**
- A) Write the method of preparation of diphtheria anti-toxin.
B) Describe the construction and working of fluidized bed dryer. 7+7
15. A) Explain the process of soxhlet extraction.
B) Write a note on filter aids 8+5
16. A) Explain the construction and working of an autoclave with a neat diagram
B) Explain the manufacturing of soft gelatin capsules. 6+7
17. A) Write the construction and working of colloidal mill.
B) Explain the principle, construction and working of cyclone separator. 6+7

D3101216

GOVERNMENT OF KARNATAKA
(BOARD OF EXAMINING AUTHORITY)

D. Pharm. Part – I Examinations (ER-91), December-2016

PHARMACEUTICS-I

Time: 3Hours

Max. Marks: 80

Note: Answer any **TEN** questions from **Section – A** and **THREE** from **Section – B** including Question No. 14, which is compulsory

Section-A

4 X 10=40

1. Give a brief history of Indian Pharmacopoeia.
2. Write a note on new drug delivery systems.
3. In what proportion 20%, 15%, 5% and 3% zinc oxide ointment be mixed to produce 10% ointment?
4. Write a note on aerosols.
5. Describe the construction and working of Hammer mill.
6. Write a note on filter media.
7. Differentiate between evaporation and distillation.
8. Explain elutriation.
9. Enumerate the factors affecting filtration.
10. Explain the principle of freeze drying.
11. Explain the weight variation and hardness test for tablets.
12. Write a note on grading of powders.
13. Define infusion and decoction.

Section B

14. a) Define sterilization. Classify the different methods of sterilization. 2+4
- b) Describe mechanical and chemical methods of sterilization. 8
- OR
- a) Define and classify tablets. Describe the different granulation technique for production of tablets 1+3+6
- b) Write a note on enteric coating of tablets. 4
15. a) Explain continuous hot extraction with a neat diagram.
- b) Describe the construction and working of Stokes still for preparation of water for injection IP. 7+6
16. a) Describe the method of preparation of Diphtheria antitoxin.
- b) Describe the manufacture of soft gelatin capsule. 7+6
17. Write note on a) Colloid mill b) Fluidized bed dryer c) Rubber closures. 4+5+4
