

**'T' Scheme
Sample Question Paper**

Program Name : Diploma in Chemical Engineering

Program Code : CH

Semester : Sixth

Course Title : Pharmaceutical Technology

Marks : 70

22614

Time: 3 Hrs.

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order

1. Answer any Five of the Following:

(10Marks)

- a) Define Pharmacopeia.
- b) Enlist Different types of drugs.
- c) Write definition of Homogenization.
- d) Define filtration.
- e) List any two uses of Active Pharmaceutical Ingredients.
- f) Define Galenical process.
- g) Enlist different equipment used for sterilization (Any four).

2. Answer any Three of the Following:

(12 Marks)

- a) Explain the Process of formation of Rantadine with Flow Diagram
- b) Describe Goods Manufacturing Practices.
- c) Draw neat sketch of Silverson Type Homogenizer.
- d) Classify the different filter media and filter aid used for filtration process.

3. Answer any Three of the Following: (12 Marks)

- a) Write Process Description of Atenolol.
- b) List any eight pharmacy and pharmaceutical industries in India.
- c) Suggest the process for sterilization using radiation and explain that process in brief.
- d) Describe the process of decoction briefly.

4. Answer any Three of the Following: (12 Marks)

- a) Differentiate between Sterilization and Disinfection.
- b) Explain any two types of Dosage Form
- c) Describe Emulsification process
- d) Enlist the factors influencing the rate of filtration.
- e) Write principle, working and construction of Decanter

5. Answer any Two of the Following : (12 Marks)

- a) Explain construction and working of Mono Stage Centrifugal extractor with principle.
- b) Write any six applications of Emulsification and Homogenization processes.
- c) Describe HEPA (High Efficiency Particulate Air) filters with neat diagram.

6. Answer any Two of the Following : (12 Marks)

- a) Write process description of Metformine with neat process flow diagram.
- b) Suggest the type of drug that can be used in following cases
 - i) to maintain nervous activity
 - iii) drug through Inhalation
 - ii) For pain relief
 - iv) profound distortions in a person's perceptions of reality
 - v) to increase the activity in brain
 - vi) in disort perception of sight and sound.
- c) Explain process description of Amoxicillin trihydrate and reaction involved in the process.

Scheme - I
Sample Test Paper – I

Program Name : Diploma in Chemical
Engineering Program Code : CH
Semester : Sixth
Course Title : Pharmaceutical Technology
Marks : 20

22614

Time: 1 Hour.

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR.

(08 Marks)

- a) Define Pharmaceutics.
- b) List any four types of dosage form.
- c) Write any four types of drug.
- d) Give the names of any two equipment's use for extraction process.
- e) Suggest any one process each to prepare emulsion and homogeneous solution.
- f) Enlist any four industrial applications of homogenization process.

Q.2 Attempt any THREE.

(12 Marks)

- a) Describe the concept of GMP.
- b) Draw the schematic diagram of colloidal mill.
- c) Explain the concept of centrifugal extractor in brief.
- d) Describe extraction process in brief
- e) Write any four uses of Mixer Settler
- f) Suggest the type of drug that can be use in following cases
 - i) to maintain nervous activity
 - ii) For pain relief
 - iii) drug through Inhalation
 - iv) profound distortions in a person's perceptions of reality

Scheme - I
Sample Test Paper - II

Program Name : Diploma in Chemical Engineering
Program Code : CH
Semester : Sixth
Course Title : Pharmaceutical Technology
Marks : 20

22614

Time: 1 Hour.

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q. 1 Attempt any FOUR.

(08 Marks)

- a) Define filtration process.
- b) Write any four types of sterilization.
- c) List any two filter media used for filtration.
- d) Define Incineration.
- e) Enlist any four uses of leaf filter.
- f) Give the names of any two API

Q. 2 Attempt any THREE

(12 Marks)

- a) Draw process flow diagram of Rantadine.
- b) Suggest the process for sterilization using radiation and explain that process in brief.
- c) Describe HEPA (High Efficiency Particulate Air) filter briefly.
- d) Explain the process of formation of amoxicillin along with flow diagram.
- e) List any four uses of sterilization.
- f) Enlist any four factors affecting the rate of filtration.