



# PHB

## Question Paper Series

D. Pharm (Second Year)

**HOSPITAL AND CLINICAL PHARMACY**

*First Edition: 8 March 2021*



By: Dr. A. K. Gupta

**Publishing Partner**

**Association of Pharmaceutical Teachers of India (U.P.)**

**&**

**The Association of Young Pharma Professionals**

# **HOSPITAL AND CLINICAL PHARMACY**

**D. Pharm (Second Year)**

**PHB Question Paper Series**

**First Edition: 8 March 2021**

**By:**

**DR. ARVIND GUPTA**

**(M.Pharm, PDCR, M.Sc & Ph.D)**

**(GATE 2003 97.22 Percentile)**

**Publishing Partner**

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# Preface

It is with great pleasure that we introduce the PHB question paper series “**HOSPITAL AND CLINICAL PHARMACY** ” for D. Pharma students. The PHB question paper series try to prepare and collect the question papers of technical board. In future PHB add the question paper of various universities in this series.

All efforts have been made to keep the text error-free. Any suggestions and constructive comments would be highly appreciated and incorporated in the future edition. My sincere thanks are due to my colleagues for their valuable comments and suggestions.

**Dr. A. K. Gupta**

**Dedicated**

**to**

**My Family**

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**D. Pharm Second Year**  
**Hospital and Clinical Pharmacy**  
**HSBTE Dec 2019**  
**Paper Code: PHB2301**

**3 Hours / 80 Marks**

Roll No.

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**Time : 3 Hrs.**

**M.M. : 80**

*Instructions* – (1) All Questions are *Compulsory*.

(2) Answer each next main Question on a new page.

(3) Figures to the right indicate full marks.

(4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**SECTION-A**

**Note:** Objective type questions. All questions are compulsory

**[10x1=10]**

1. Define emetics.
2. Write use of Ryals tube.
3. Mention suitable methods of sterilization of sutures.
4. Define diuretics. Give one example.
5. Full form of EOQ\_\_\_\_\_.
6. ESR stands for\_\_\_\_\_.
7. What is the normal value of RBC count in women.
8. Write use of DDT.
9. \_\_\_\_\_ is an antidote used in iron poisoning.
10. Normal fasting blood sugar level is\_\_\_\_\_.

**SECTION-B**

**Note:** Very short answer type questions. Attempt any five questions out of seven questions. **[5x3=15]**

11. Enlist various databases used in hospitals.
12. What are satellite pharmacy services?
13. Explain role of CSSD.
14. What are health accessories?
15. Name three drugs having teratogenic effect.

16. Define adverse reactions.
17. Explain universal antidote.

### SECTION-C

**Note:** Attempt **any five** questions out of seven questions.

[5x5=25]

18. Write food sources for vitamin A, D, E and K.
19. What is drug information bulletin?
20. What are the various types of surgical dressings used in hospitals?
21. Explain cause; symptoms and treatment of hepatitis.
22. Write short note on mechanism of drug interaction.
23. Explain the principle and use of dry heat and moist heat sterilization.
24. Discuss heavy metal poisoning and its treatment.

### SECTION-D

**Note:** Long answer type questions. Attempt **any three** questions out of four questions.

[3x10=30]

25. Describe the drug distribution system in hospitals.
26. Write pathophysiology; signs and symptoms and complications of diabetes mellitus.
27. Write short note on
  - a) Role of hospital pharmacist.
  - b) Physiological parameters and their significance.
28. Define Bioavailability. Write factors affecting Bioavailability.

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**D. Pharm Second Year**  
**Hospital and Clinical Pharmacy**  
**HSBTE May 2019**  
**Paper Code: PHB2302**

**3 Hours / 80 Marks**

Roll No.

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**Time : 3 Hrs.**

**M.M. : 80**

*Instructions* – (1) All Questions are *Compulsory*.

(2) Answer each next main Question on a new page.

(3) Figures to the right indicate full marks.

(4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**SECTION-A**

**Note:** Objective type questions. All questions are compulsory.

**[10x1=10]**

1. Define Hospital Formulary.
2. What advice you will give to the patient taking Diazepam.
3. Give normal values of Erythrocytes.
4. Mention suitable methods of sterilization of sutures.
5. What is the first pass effect?
6. What do you mean by emetics?
7. CCF stands for \_\_\_\_\_
8. Write quality control tests for parenterals.
9. \_\_\_\_\_ is an artery forcep.
10. Menopause is \_\_\_\_\_

**SECTION-B**

**Note:** Very short answer type questions. Attempt **any five** questions out of seven questions. **[5x3=15]**

11. What is Bed Side Pharmacy?
12. Differentiate LVP and SVP.
13. Describe ABC analysis?



14. Name various health accessories used in the hospital.
15. Name three drugs having teratogenic effect.
16. Enlist various databases used in hospital.
17. What is ESR? Write its clinical significance.

### SECTION-C

**Note:** Short answer type questions. Attempt **any five** questions out of seven questions. [5x5=25]

18. How the computers are useful in to maintain the records in the hospital?
19. Write sources of drug information.
20. What is pyrogen test? Explain.
21. Classify bandages with example.
22. Differentiate between drug addiction and drug habituation.
23. Define Hospital. Give different ways of its classification.
24. What are various requirements and abilities of hospital pharmacist?

### SECTION-D

**Note:** Long answer type questions. Attempt **any three** questions out of four questions. [3x10=30]

25. What are the various methods by which drugs are distributed for use in hospitalized patients?
26. Define Bioavailability. Write factors affecting bioavailability.
27. Write pathophysiology, signs and symptoms and complications of Diabetes Mellitus.
28. What is drug interaction? Describe with examples pharmacokinetic drug interaction.

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**D. Pharm Second Year**  
**Hospital and Clinical Pharmacy**  
**HSBTE May 2018**  
**Paper Code: PHB2303**

**3 Hours / 80 Marks**

Roll No.

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**Time : 3 Hrs.**

**M.M. : 80**

*Instructions* – (1) Attempt **any 5** questions.

(2) Answer each next main Question on a new page.

(3) Figures to the right indicate full marks.

(4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

1. Define hospital Pharmacy. Describe about the personal and facilities requirement including equipments in a hospital pharmacy. [16]
2. Discuss the organization, Composition and functioning of Hospital formulary system. [16]
3. Describe about the various applications of computers in maintaining the records in the hospitals. [16]
4. Discuss in detail about the Health accessories utilized in the hospitals. [16]
5. Give a detailed account on manufacturing of non-sterile products. [16]
6. Write short notes on any two:- [16]
  - (a) Therapeutic Drug monitoring
  - (b) Clearance of drug
  - (c) Biological half life of drug
7. Discuss the pathophysiology and symptoms of any two disease. [16]
  - (a) Chicken pox
  - (b) Leprosy
  - (c) Epilepsy
8. Explain the role of central sterile room services in a modern hospital. Discuss its lay out. [16]

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**D. Pharm Second Year**  
**Hospital and Clinical Pharmacy**  
**HSBTE Dec 2017**  
**Paper Code: PHB2304**

**3 Hours / 80 Marks**

Roll No.

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**Time : 3 Hrs.**

**M.M. : 80**

*Instructions* – (1) Attempt **any five** questions.

(2) Answer each next main Question on a new page.

(3) Figures to the right indicate full marks.

(4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

1. What are drug interactions? Describe their mechanism by giving the example. [16]
2. Describe the use of various surgical instruments and health accessories utilized in hospital. [16]
3. Write notes on : [2x8=16]
  - a) Heavy metal poisoning
  - b) Central sterile services
4. Define the following: [4x4=16]
  - a) Hospitals
  - b) P.T.C
  - c) Adverse Drug Reaction
  - d) Clinical Pharmacy
5. Differentiate between the following : [2x8=16]
  - a) Large and small volume parenterals
  - b) Drug dependence and drug abuse.
6. Describe the layout, production planning and man power requirement for the sterile manufacture of large volume parenterals. [16]
7. Describe the pathophysiology and symptoms of following: [2x8=16]
  - a) Cholera
  - b) Hepatitis

8. Write notes on :

[2x8=16]

- a) Flow chart of material and man in hospital service.
- b) Drug food interactions.

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**D. Pharm Second Year**  
**Hospital and Clinical Pharmacy**  
**GUJARAT TECHNOLOGICAL UNIVERSITY**  
 May 2017  
 Paper Code: PHB2305

**3 Hours / 80 Marks**

Roll No.

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**Time : 3 Hrs.**

**M.M. : 80**

*Instructions* – (1) Attempt **any five** questions.

(2) Answer each next main Question on a new page.

(3) Figures to the right indicate full marks.

(4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

- Q.1** (a) Define “Hospital Pharmacy”. Discuss briefly the functions and objectives of hospital pharmacy. **06**  
 (b) Write requirements and duties of pharmacist in hospital. **05**  
 (c) Explain the role and significance of „Hospital Formulary System“. **05**
- Q.2** (a) What is “PTC”? Write compositions and functions of PTC. **06**  
 (b) Discuss in detail about „Complete Floor Stock System“. **05**  
 (c) What will be the procedure for procurement and purchase of drugs in hospital pharmacy? **05**
- Q.3** (a) Define “CSSR”. Write objectives of CSSR. Draw its lay out. **06**  
 (b) What are the various quality control tests prescribed for Parenteral Products prepared in hospital? **05**  
 (c) Explain manufacturing of emulsions in hospital. **05**
- Q.4** (a) Define “Drug Information Bulletin”. Discuss the function of drug information services in a hospital pharmacy. **06**  
 (b) What are the various types of Surgical Dressings used in hospital? Enlist I.P. standards for Absorbent Cotton. **05**  
 (c) Draw and explain tissue forceps, dissecting forceps and haemostatic forceps. **05**
- Q.5** (a) Define the term “Clinical Pharmacy”. Discuss various duties of clinical pharmacist. **06**  
 (b) What are the various modern dispensing aspects of hospital? Write a note on Medication History“. **05**  
 (c) Translate the following Latin terms in to English and write their full form. **05**  
 i) sem in die  
 ii) p.c.

iii) h.s.

iv) dol. urg.

v) o.m.

- Q.6** (a) Define “Drug Interactions”. Discuss the drug interaction with reference to Diuretics and Cardiovascular Drugs. **06**
- (b) Define “ADR”. Discuss types of ADR and their significance. **05**
- (c) Define “Drug Abuse”. What are the reasons for drug abuse? How it is different from “Drug Dependence”? **05**
- Q.7** (a) Write a short note on: **06**
- i) Organophosphorous poisoning
- ii) Insecticide poisoning
- (b) Explain manifestation and pathophysiology including symptoms of a) Tuberculosis b) Diabetes **05**
- (c) Discuss in detail factors affecting bioavailability. **05**

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**D. Pharm Second Year**  
**Hospital and Clinical Pharmacy**  
**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Paper Code: PHB2306**

**3 Hours / 80 Marks**

Roll No.

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**Time : 3 Hrs.**

**M.M. : 80**

*Instructions* – (1) Attempt **any five** questions.

(2) Answer each next main Question on a new page.

(3) Figures to the right indicate full marks.

(4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Q.1** (a) Define Hospital. Classify them on various criteria. How the hospital finance is managed with respect to present Medi-claim policy in India? **[16]**

(b) What do you mean by supportive services? Discuss this with context to “city within the city”.

(c) Define the term clinical pharmacy. Discuss the effect of medication history on patient’s counseling.

**Q.2** (a) What is in-patient service? Classify them and write a note on satellite pharmacy. **[16]**

(b) How will you plan to manufacture liquid orals for captive consumption within hospital with economic consideration?

(c) Give the usage of ECG, Glucometer, Endoscopy & MRI

**Q.3** (a) Discuss manifestation, etiology and patho-physiology of diabetes and rheumatoid arthritis. **[16]**

(b) Give the composition, operation of PTC and explain its role in Drug Product Defect Reporting program.

(c) Classify commonly used surgical instruments and health accessories with the names of brand leader.

**Q.4** (a) Write a note on format and content of Hospital formulary. **[16]**

(b) What do you mean by Drug Information service? How the primary and secondary source of information is being collected?

(c) Write a note on general treatment of poisoning and systemic antidotes.

**Q.5** (a) Discuss the location and layout of CSSD in hospital. How the surgical disposables, instruments and implants are packed and sterilized before surgery? **[16]**

(b) Write a note on plastics applied in healthcare. Comment on their international standards for quality.

(c) What is ADR? Give the example of drug induced diseases and teratogenicity.

- Q. 6** (a) What is the application of computers in various fronts of hospital administration? [16]  
(b) Explain following terms: Drug abuse, Drug dependence, Drug addiction and Drug dependence.  
(c) Write the examples of Drug-drug interaction with respect to analgesics, diuretics and antidiabetics.
- Q.7** (a) Define Bio-availability. Enumerate various parameters of pharmacokinetics. [16]  
(b) Explain the physiological parameters: S. bilirubin, SGPT with its significance.  
(c) Comment on role of clinical research organizations (CRO) in the development of healthcare system in India

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Roll No.....

Code No. : PHB2307

**U.P. BTE ANNUAL EXAMINATION – 2017**

[Final Year] Two Years Diploma Course in Pharmacy [214]

**HOSPITAL AND CLINICAL PHARMACY**

Time: 3.00 Hours]

[Maximum Marks: 80

**NOTES:**

- i) Attempt all the questions. Each question carries equal marks (16 marks).
- ii) Students are advised to specially check the Numerical Data of question papers.
- iii) Use of Pager and Mobile Phone by the students is not allowed.

**SECTION: A**

- Q.1** a) Discuss the different types of outpatient services for the drug distribution in hospitals. [8]  
b) Discuss in detail satellite pharmacy services in India. [8]
- Q.2** a) Classify hospitals. Discuss the organization of hospitals. [8]  
b) Write about composition and function of pharmacy and therapeutic committee. [8]
- Q.3** a) Write in detail manufacturing of liquid orals. [8]  
b) Write in brief about central sterile department services. [8]

**SECTION: B**

- Q.4** Write short notes on **any two** of the following: [2x4=8]  
a) Bandages and adhesive tapes  
b) Surgical dressings  
c) Drug Information services
- Q.5** Answer **any two** parts of the following [2x4=8]  
a) Pathophysiology of epilepsy.  
b) Scope of clinical pharmacy.  
c) Teratogenicity.

**Q.6** Discuss **any two** of the following:

[2x4=8]

- a) drugs in clinical toxicity
- b) Drug abuse and drug dependance
- c) Drug interaction with respect of cardiovascular drugs.

**Q.7** Discuss **any two** of the following

[2x4=8]

- a) Causes and symptoms of Hepatitis.
- b) Universal antidotes
- c) Physiological parameters with their significance.

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Roll No.....

Code No. : PHB2308

## U.P. BTE ANNUAL EXAMINATION – 2018

[Final Year] Two Years Diploma Course in Pharmacy [214]

## HOSPITAL AND CLINICAL PHARMACY

Time: 3.00 Hours]

[Maximum Marks: 80

## NOTES:

- 1) Attempt all questions. All questions carry equal marks.
- 2) Students are advised to specially check the numerical data of question paper in both versions.
- 3) Use of Pager and mobile phones by the students are not allowed.

**SECTION: A**

- Q.1** a) Define hospital pharmacy. Describe its objectives and functions. [8]  
b) discuss various requirements and abilities required for hospital pharmacists. [8]
- Q.2** What are the various types of surgical dressings used in the hospital? Discuss their pharmacopoeia tests for quality. [16]
- Q.3** a) Explain the composition and functions of pharmacy therapeutic committee. [8]  
b) Discuss the importance of drug information services. [8]
- Q.4** Write short notes on **any four** of the following: [4x4=16]  
a) Testing of raw materials.  
b) Central sterile services.  
c) Application of computer in hospital.  
d) Hospital formulary.  
e) Patient care services.

**SECTION: B**

- Q.5** Discuss the pathophysiology and manifestations of **any two** diseases: [2x8=16]  
a) Diabetes

b) Hypertension

c) Peptic Ulcer

**Q.6** a) What is drug interaction? Discuss different types of drug interaction in details. **[10]**

b) Explain general treatment of poisoning. **[6]**

**Q.7** Write short notes on following: **[4x4=16]**

a) Scope of clinical pharmacy.

b) Drug Addiction

c) Adverse drug reactions.

d) Teratogenicity.

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Roll No.....

Code No. : PHB2309

## U.P. BTE ANNUAL EXAMINATION – 2019

[Final Year] Two Years Diploma Course in Pharmacy [214]

## HOSPITAL AND CLINICAL PHARMACY

Time: 3.00 Hours]

[Maximum Marks: 80

## NOTES:

- 1) Attempt all questions. All questions carry equal marks.
- 2) Students are advised to specially check the numerical data of question paper in both versions.
- 3) Use of Pager and mobile phones by the students are not allowed.

**SECTION: A**

- Q.1** a) Health Delivery system in India. [8]  
b) Discuss the requirement of pharmacists, space and equipment for a hospital pharmacy. [8]
- Q.2** a) Discuss in short the various drug distribution systems to indoor patients in hospitals. [8]  
b) i) Name four surgical instruments with their uses. [4]  
ii) Name four health accessories with their uses. [4]
- Q.3** a) Discuss the objectives of pharmacy and Therapeutic committee. [8]  
b) Discuss in detail the applications of computer in hospital. [8]
- Q.4** Write short notes on any four of the following. [4x4=16]  
a) Sources of drug information services.  
b) Central Sterile services.  
c) Satellite Pharmacy services.  
d) functions of Hospital.  
e) Out-patient Services.  
f) Laminar Air Flow Apparatus.

**SECTION B**

**Q.5** a) Translate the following Latin terms in English. **[4x2=8]**

- i) Hora Somni
- ii) Post cibos
- iii) Rx
- iv) Ter in die

b) Explain the following dosage forms: **[4x2=8]**

- i) Aerosols
- ii) Tinctures
- iii) Lozenges
- iv) Implants.

**Q.6** Answer **any two** of the following: **[2x8=16]**

- a) Pharmacist and patient counselling.
- b) Discuss in short the manifestations and pathophysiology of Hepatitis or Rheumatoid Arthritis.
- c) Factors affecting bioavailability of drugs.

**Q.7** Write short notes on **any four** of the following. **[4x4=16]**

- a) Drug abuse.
- b) Drug-drug interaction.
- c) Cardiovascular Diseases.
- d) Functions of clinical Pharmacy.
- e) Teratogenicity.
- f) Narcotics Drug Poisoning.

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Roll No.....

Code No. : PHB2310

## U.P. BTE ANNUAL EXAMINATION – 2020

[Final Year] Two Years Diploma Course in Pharmacy [214]

## HOSPITAL AND CLINICAL PHARMACY

Time: 3.00 Hours]

[Maximum Marks: 80

## NOTES:

- 1) Attempt all questions. All questions carry equal marks.
- 2) Students are advised to specially check the numerical data of question paper in both versions.
- 3) Use of Pager and mobile phones by the students are not allowed.

**SECTION A**

- Q.1** a) Write about the organization of hospital pharmacy unit in a hospital. [8]  
b) Write about the different methods of inpatient dispensing. [8]
- Q.2** a) What are the responsibilities of pharmacist in a hospital and in community pharmacy? [8]  
b) Discuss composition and functions of P.T.C . [8]
- Q.3** a) Write nomenclature and uses of surgical instruments. [8]  
b) Write a note on drug information service. [8]
- Q.4** Write a brief note on the following: [4x4=16]  
a) Hospital formulary system  
b) Manufacturing of liquid orals.  
c) Surgical dressing.  
d) Computers in hospital and retail pharmacy.

**SECTION B**

- Q.5** Discuss pathophysiology of following disease: (any two) [2x8=16]  
a) Tuberculosis  
b) Epilepsy

c) Diabetes

**Q.6** Answer **any two** of the following:

**[2x8=16]**

a) Definition and scope of clinical pharmacy.

b) Mechanism of drug interaction.

c) ADRs

**Q.7** a) Write general principles of treatment of poisoning.

**[8]**

b) Discuss various factors which affect Bioavailability.

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**Editor-in-Chief**  
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**GATE 2003 97.22 Percentile**

**HEAD OFFICE**

# **Pharma Herald Bulletin**

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