

[KV 820]

SEPTEMBER 2009

Sub. Code: 3820

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**(Regulations 2008-2009 )**

**(Candidates admitted from 2008-2009 onwards)**

**FOURTH YEAR**

**PAPER II – HOSPITAL PHARMACY**

*Q.P. Code: 383820*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. What is an infection control programme.  
Briefly explain the organization and functions of infection control committee.
2. a) Define the terms purchase, inventory and control.  
b) Briefly explain the procedures involved in the purchase of drugs for hospital pharmacy.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Write the functions of pharmacy and therapeutic committee.
2. Discuss the roles and responsibilities of a hospital pharmacist.
3. Discuss the guidelines and preparation of hospital formulary.
4. Write short notes on dispensing of controlled substances.
5. Write the various methods of preparation of oral dosage formulations.
6. Discuss the packaging of radio pharmaceuticals.

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[KX 820]

SEPTEMBER 2010

Sub. Code: 3820

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**(Regulations 2008-2009 )**

**(Candidates admitted from 2008-2009 / 2009-2010 onwards)**

**FOURTH YEAR**

**PAPER II – HOSPITAL PHARMACY**

***Q.P. Code: 383820***

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write in detail about the system for Inpatient drug distribution.
2. Write about guiding principles and the contents of hospital formulary.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Write notes on function of drug information center.
2. Write notes on total parenteral nutrition.
3. Write notes on the method of preparation of Ointments.
4. What are the objectives of inventory control management?
5. Name various methods of inventory control and explain the ABC analysis.
6. What are the Roles and Responsibilities of Hospital Pharmacist?

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[KY 820]

MAY 2011

Sub. Code: 3820

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**(Regulations 2008-2009 )**

**(Candidates admitted from 2008-2009 / 2009-2010 onwards)**

**FOURTH YEAR**

**PAPER II – HOSPITAL PHARMACY**

***Q.P. Code: 383820***

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. a) Write a detailed note on the objectives, formulation and significances of a Pharmacy and Therapeutic committee in a hospital. (15)
- b) Explain the various types of budgets? (5)
2. a) Explain the importance of a drug distribution techniques and discuss in detail about unit dose drug distribution method in a hospital? (15)
- b) Write a brief note on the format of a hospital formulary? (5)

**II. Write notes on:**

**(6 x 5 = 30)**

1. Test for pyrogens.
2. EOQ.
3. Classification of Hospitals.
4. News letter.
5. Dispensing to Out Patients.
6. Investigational & Non formulary drugs.

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**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)****DEGREE EXAMINATION****FOURTH YEAR****PAPER II – HOSPITAL PHARMACY***Q.P. Code: 383820***Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :**

Pages (Max.)	Time (Max.)	Marks (Max.)
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- |  |    |         |    |
|--|----|---------|----|
| 1. Explain about inventory tools and its application in drug store management. | 17 | 40 min. | 20 |
| 2. Hospital pharmacy structure, organization and management.                   | 17 | 40 min. | 20 |

**II. Write notes on :**

- |  |   |         |   |
|--|---|---------|---|
| 1. Organization and functions of hospital.                                   | 4 | 10 min. | 6 |
| 2. Members and functions of research and ethics committee.                   | 4 | 10 min. | 6 |
| 3. Pharmacy and therapeutic committee.                                       | 4 | 10 min. | 6 |
| 4. Handling and packaging of Radiopharmaceuticals.                           | 4 | 10 min. | 6 |
| 5. Role of pharmacist in central sterile supply department.                  | 4 | 10 min. | 6 |
| 6. Types of powders and its clinical advantages.                             | 4 | 10 min. | 6 |
| 7. Discuss various education and training activities of hospital Pharmacist. | 4 | 10 min. | 6 |
| 8. Unit dose drug distribution.  | 4 | 10 min. | 6 |
| 9. Management of materials and finance in hospital pharmacy.                 | 4 | 10 min. | 6 |
| 10. Quality control in Parenterals.  | 4 | 10 min. | 6 |

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**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)****DEGREE EXAMINATION****FOURTH YEAR****PAPER II – HOSPITAL PHARMACY***Q.P. Code: 383820***Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :****Pages Time Marks  
(Max.) (Max.) (Max.)**

- |  |    |         |    |
|--|----|---------|----|
| 1. Pharmacy and Therapeutic committee –Organization (5),<br>Functions (10) and limitations (5).  | 17 | 40 min. | 20 |
| 2. a) Write the types of a drug distribution techniques and<br>discuss in details about unit dose drug distribution method<br>in a hospital? | 17 | 40 min. | 20 |
| b) Newsletter.   |    |         |    |

**II. Write notes on :**

- |  |   |         |   |
|--|---|---------|---|
| 1. Objectives of the infection control programme.          | 4 | 10 min. | 6 |
| 2. Discuss about purchasing procedure.                     | 4 | 10 min. | 6 |
| 3. Notes on developing budgets.                            | 4 | 10 min. | 6 |
| 4. Labelling & Packaging of radioisotopes.                 | 4 | 10 min. | 6 |
| 5. Role of hospital pharmacist.                            | 4 | 10 min. | 6 |
| 6. Monitoring parameters for total parenteral formulation. | 4 | 10 min. | 6 |
| 7. Write a brief note on hospital formulary.               | 4 | 10 min. | 6 |
| 8. Different methods of inventory control.                 | 4 | 10 min. | 6 |
| 9. Different phases of clinical trials.                    | 4 | 10 min. | 6 |
| 10. Systematic approach to provide drug information.       | 4 | 10 min. | 6 |

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**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)****DEGREE EXAMINATION****FOURTH YEAR****PAPER II – HOSPITAL PHARMACY***Q.P. Code: 383820***Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :**

Pages (Max.)	Time (Max.)	Marks (Max.)
-----------------	----------------	-----------------

- |   |    |         |    |
|---|----|---------|----|
| 1. Discuss in detail about management of materials.   | 17 | 40 min. | 20 |
| 2. Write the types of license issued for using radio isotopes and Role of pharmacist in the isotope Pharmacy. | 17 | 40 min. | 20 |

**II. Write notes on :**

- |   |   |         |   |
|---|---|---------|---|
| 1. Nutritional support for renal failure.                             | 4 | 10 min. | 6 |
| 2. Methods of sterilization for sterile products.                     | 4 | 10 min. | 6 |
| 3. Brief notes on Hospital committees.                                | 4 | 10 min. | 6 |
| 4. Drug distribution method in a hospital.                            | 4 | 10 min. | 6 |
| 5. Write the steps involved in development of therapeutic guidelines. | 4 | 10 min. | 6 |
| 6. Role of purchasing agent in drug procurement.                      | 4 | 10 min. | 6 |
| 7. Discuss about ABC analysis.  | 4 | 10 min. | 6 |
| 8. Unit dose drug distribution method.                                | 4 | 10 min. | 6 |
| 9. Role of pharmacist in central sterile supply unit.                 | 4 | 10 min. | 6 |
| 10. Pharmacy and therapeutic committee.                               | 4 | 10 min. | 6 |

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[LC 820]

APRIL 2013

Sub. Code: 3820

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**FOURTH YEAR**

**PAPER II – HOSPITAL PHARMACY**

*Q.P. Code: 383820*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer All questions**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Write in detail about hospital pharmacy:
  - a) Organization.
  - b) Functions.
2. a) What is Total Parenteral Nutrition?
  - b) Monitoring parameters for Total Parenteral Nutrition.
  - c) Complications of Total Parenteral Nutrition.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Write in detail about infection control committee structure and function.
2. Factors affecting implementation and use of therapeutic guidelines.
3. EOQ method in inventory.
4. Explain automatic stop order system.
5. Pharmacist in education and training programme.
6. Write the divisions of budget.
7. Supporting services for hospital.
8. Radio Pharmaceuticals.
9. Write the various methods of preparation of oral formulations.
10. Sources of drug information.

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[LD 820]

OCTOBER 2013

Sub. Code: 3820

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**FOURTH YEAR**

**PAPER II – HOSPITAL PHARMACY**

*Q.P. Code: 383820*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer All questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define hospital formulary. Describe the development and management of hospital Formulary.
2. Write in detail about various methods of inventory control and its advantages and disadvantages.

**II. Write notes on:**

**(10 x 3 = 30)**

1. Advantages of unit dose system.
2. Radio Pharmaceuticals.
3. Functions of pharmacy and therapeutic committee.
4. Factors affecting implementation and use of therapeutic guidelines.
5. Pharmacist in education and training programme.
6. Floor stock method.
7. Write the various methods of preparation of oral formulations.
8. Role of ethical committee in hospital.
9. Total parenteral nutrition.
10. Guidelines for setting up a drug information centre.

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[LE 820]

APRIL 2014

Sub. Code: 3820

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**FOURTH YEAR**

**PAPER II – HOSPITAL PHARMACY**

*Q.P. Code: 383820*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer All questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Hospital Pharmacy structure, organization and management.
2. Write in detail about manufacture of sterile formulations.

**II. Write notes on:**

**(10 x 3 = 30)**

1. Role and responsibilities of Hospital Pharmacist.
2. Total Parenteral Nutrition.
3. Budget preparation and implementation.
4. Members and functions of research and ethics committee.
5. Warehousing of drugs in Hospital Pharmacy.
6. News letter in Hospital Pharmacy communication.
7. Method of preparation of ointments and its advantages.
8. Role of hospital pharmacist in relationship to other hospital departments and staff.
9. Distribution of narcotic and other controlled substances.
10. Hospital Formulary.

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[LF 820]

OCTOBER 2014

Sub. Code: 3820

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**(2009-2010 Regulation)**

**FOURTH YEAR**

**PAPER II – HOSPITAL PHARMACY**

*Q.P. Code: 383820*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer All questions**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Explain the drug distribution procedure for narcotics and other controlled substances.
2. Explain the manufacturing procedure for sterile formulation in detail.
3. Enumerate the roles and responsibilities of pharmacist in hospital organization.
4. Define radiation hazards and explain the procedure for handling radioactive substances.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Contents of hospital formulary.
2. Pharmacy and therapeutic committee.
3. Differentiate inpatient and outpatient drug distribution system.
4. Discuss ABC in inventory control.
5. Write a brief note on budget preparation in hospital pharmacy.
6. Professional skills required for hospital pharmacist.

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[LG 820]

APRIL 2015

Sub. Code: 3820

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**(2009-2010 Regulation)**

**FOURTH YEAR**

**PAPER II – HOSPITAL PHARMACY**

*Q.P. Code: 383820*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer All questions**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Discuss the role and responsibilities of pharmacist with respect to in patients and out patients in a Hospital.
2. Explain the organizational set up, functions and policies Pharmacy Therapeutic committee.
3. Mention the different drug distribution systems followed in the hospital.
4. Discuss in detail the formulation requirements and manufacturing process for tablets.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Write the departmental organization chart for pharmacy in a hospital.
2. Newsletter.
3. Objectives of total parenteral nutrition.
4. Mention the different methods of inventory control.
5. Discuss the manufacturing requirements for parental products.
6. Describe the functions of pharmacist handling radio isotopes.

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[LH 820]

OCTOBER 2015

Sub. Code: 3820

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION**

**(2009-2010 Regulation)**

**FOURTH YEAR**

**PAPER II – HOSPITAL PHARMACY**

*Q.P. Code : 383820*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions**

**I. Elaborate on :**

**(4 x 10 = 40)**

1. Classify and explain parenteral dosage forms. Write the quality testing methods for parenteral dosage forms.
2. Explain pharmacy and therapeutic committee and its functions in preparing hospital formulary in detail.
3. Explain hospital pharmacy services in detail.
4. Discuss radiopharmaceuticals and its uses in therapeutic care. Write the preventive measures for radiation hazards.

**II. Write notes on :**

**(6 x 5 = 30)**

1. Classify various types of hospitals with examples.
2. Enumerate the role of pharmacist in central sterile supply services.
3. Research and ethical committee.
4. Advantages and disadvantages of oral dosage forms.
5. Drug purchase procedure.
6. Qualities of good pharmacist.

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[LI 820]

APRIL 2016

Sub. Code: 3820

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER II – HOSPITAL PHARMACY**

*Q.P. Code : 383820*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on :**

**(4 x 10 = 40)**

1. What is Parenteral Nutrition? What are the monitoring parameters and complications of total Parenteral Nutrition?
2. Explain briefly about manufacturing procedure and Quality Control Test for Tablets.
3. Define Hospital formulary. Describe the development and management of Hospital formulary.
4. Define Radio Isotopes. Explain handling and packaging of Radio Isotopes.

**II. Write notes on :**

**(6 x 5 = 30)**

1. What is the structure and role of Pharmacist in Infection Control?
2. What is the role of Pharmacists in Responsibility and Control over Drug Procurement?
3. Guidelines for setting up a Drug information center.
4. Discuss ABC in inventory control.
5. Budget preparation and implementation.
6. Factors affecting implementation and use of therapeutic Guidelines.

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[LJ 820]

OCTOBER 2016

Sub. Code: 3820

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER II – HOSPITAL PHARMACY**

*Q.P. Code : 383820*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Explain briefly various methods of inventory control and its merits and demerits.
2. Discuss the operation involved in the filling of soft Gelatin Capsules.
3. Enumerate the steps involved in purchase procedure. How to calculate Re order level and Economic order quantity level in inventory management?
4. Explain the functions of hospital with an organizational chart.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Write note on professional relations and practices of hospital pharmacist.
2. Write the quality control tests for tablets.
3. How to determine work load statistics for hospital pharmacist?
4. How to prepare Budget for the hospital?
5. Add a note on external teaching programme.
6. Short notes on hospital formulary.

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[LK 820]

MAY 2017

Sub. Code: 3820

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER II – HOSPITAL PHARMACY**

*Q.P. Code : 383820*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Discuss in detail various drug distribution model in the hospital.
2. Explain pharmacist role in education and training programme.
3. How will you prepare Budget and its implementation?
4. Explain dispensing of Narcotic and other controlled substances in hospital.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Describe the functions of pharmacist in handling Radio Isotopes.
2. What is the objectives and role of Pharmacist in Central Sterile Supply System?
3. Explain various types of powders.
4. Explain various methods of inventory control and explain EOQ.
5. Quality Control Test for large volume Parenterals.
6. Developing Therapeutic Guidelines.

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[LL 820]

OCTOBER 2017

Sub. Code: 3820

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER II – HOSPITAL PHARMACY**

*Q.P. Code : 383820*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. What is an infection control programme? Briefly explain the organization and functions of infection control committee.
2. Write about the Hospital pharmacy structure, organization and management.
3. Organization and functions of hospital.
4. Explain the manufacturing procedure for sterile formulation in detail.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Write the functions of pharmacy and therapeutic committee.
2. Discuss the guidelines and preparation of hospital formulary.
3. Write the quality control tests for tablets.
4. Drug distribution in the hospital.
5. Explain various methods of inventory control and explain EOQ.
6. The role and responsibilities of pharmacist with respect to in patients and out patients in a Hospital.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LM 820]

MAY 2018

Sub. Code: 3820

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER II – HOSPITAL PHARMACY**

*Q.P. Code : 383820*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Objectives of a pharmacy and therapeutic committee of a hospital.
2. ABC type of inventory control technique used in a hospital pharmacy.
3. Drug distribution to inpatients from the hospital pharmacy.
4. Manufacturing of tablet dosage forms.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Classification of Hospitals.
2. Quality control tests for ophthalmic dosage forms.
3. Hospital Formulary.
4. Continuing Professional Development (CPD).
5. Purchase for a hospital pharmacy.
6. Infection control committee.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LN 820]

OCTOBER 2018

Sub. Code: 3820

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER II – HOSPITAL PHARMACY**

*Q.P. Code : 383820*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Roles & responsibilities of a pharmacy and therapeutic committee.
2. Therapeutic guidelines.
3. Central Sterile Supply Department (CSSD) – Role of a hospital pharmacist.
4. Unit dose dispensing system.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Responsibilities of a hospital pharmacist.
2. Total Parenteral Nutrition (TPN).
3. News Letter.
4. Additives to be added to a tablet dosage forms.
5. Individual prescription order system.
6. Packaging of Radiopharmaceuticals.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LO 820]

MAY 2019

Sub. Code: 3820

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER II – HOSPITAL PHARMACY**

*Q.P. Code : 383820*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Explain Pharmacy and Therapeutic Committee and its functions in preparing hospital formulary in detail.
2. Briefly explain the organization and functions of infection control committee.
3. Write in detail about the system for Inpatient drug distribution.
4. Explain about inventory tools and its application in drug store management.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Write a note on total parenteral nutrition.
2. Describe the functions of pharmacist in handling radio isotopes.
3. Guidelines for setting up a Drug Information Center.
4. Write note on floor stock method.
5. Classification of Hospitals.
6. Hospital Pharmacy Communication – News letter.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LP 820]

OCTOBER 2019

Sub. Code: 3820

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER II – HOSPITAL PHARMACY**

*Q.P. Code : 383820*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Organization pattern of a Hospital Pharmacy department in a hospital.
2. Role of a pharmacist in handling Radio Pharmaceuticals.
3. Hospital formulary.
4. Quality control tests for a sterile ampoule dosage form.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Formulation and functioning of a pharmacy and therapeutic committee of a hospital.
2. Role of pharmacist in central sterile supply services.
3. Hospital Budget and its component.
4. Distribution of controlled substances from hospital pharmacy.
5. Research and Ethical Committee.
6. Economic Order Quantity (EOQ), Lead time and Buffer stock.

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