

30/11/21 M

Roll Number ----- (Total Number of Questions 13) (Total number of Printed Pages 01)

Programme	B. Pharmacy
Semester	7 <sup>th</sup>
Subject	Pharmacy Practice
Subject Code	BP703T
Paper ID	78389
Time	3Hours
Maximum Marks	75

**Instructions to Candidates:** No supplementary/continuation sheet will be issued to the candidates. Answer the questions precisely.

\*Section A consists of Ten parts of 2 marks each (Objective Type); Attempt **ALL**.

\*\*Section B consists of Three questions carrying 10 marks each (Long Answer); attempt any **TWO**.

\*\*\*Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any **SEVEN**.

**Section A**

**(10 X 2 = 20)**

1. Give very short answers to the followings (2 marks each):

i.	Define and classify hospitals based on number of beds.
ii.	What is Idiosyncrasy?
iii.	Write about Beneficial interactions along with examples.
iv.	Write code of ethics for community pharmacy.
v.	Write importance of medication chart review in drug therapy monitoring.
vi.	What is Inventory control? Enumerate various methods.
vii.	Write about Drug and Poison information Centre.
viii.	What is patient compliance?
ix.	Define Hospital Formulary.
x.	What is the primary source of information?

**Section B**

**(2 X 10 = 20)**

2.	Write in detail about Hospital pharmacy along with Organization structure, location, layout of ideal pharmacy, staff requirements, and responsibilities of hospital Pharmacists.
3.	Give a detailed note on Drug Distribution System in a Hospital with special emphasis on drug distribution to In-Patient and Out-Patient.
4.	Explain various drug interactions in detail along with the suitable examples.

**Section C**

**(7 X 5 = 35)**

5.	Write various storage conditions required in a drug store.
6.	Define and classify ADRs.
7.	Brief the functions and responsibilities of Clinical Pharmacist.
8.	Write various methods used for the analysis of the drug expenditure.
9.	Discuss rational use of common over the counter medications.
10.	What is the role of pharmacist in the education and training program?
11.	What is the importance of Communication skills for a pharmacist?
12.	Write note on PTC.
13.	Explain Therapeutic Drug Monitoring.

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**Section A (10 X 2 = 20)**

1. Give very short answers to the followings (2 marks each):

i.	Give two examples for type B adverse drug reaction.
ii.	Draw the typical layout of Hospital pharmacy.
iii.	What is medication non-adherence?
iv.	Enlist the factors to be considered during Therapeutic Drug Monitoring.
v.	Differentiate between Generic and Brand name.
vi.	What is the importance of patient counselling?
vii.	Give four examples of OTC drugs.
viii.	Define Clinical review.
ix.	What are the objectives of inventory control?
x.	Give the normal range of Creatinine and BUN.

**Section B (2 X 10 = 20)**

2.	Define hospital. Write its organization structure. Explain services of hospital in detail.
3.	(a) Discuss the applications of Therapeutic drug monitoring. (5) (b) Role of Pharmacy and Therapeutic Committee in drug safety and adverse drug reaction. (5)
4.	Discuss in detail various Haematological parameters along with their significance.

**Section C (7 X 5 = 35)**

5.	Discuss pharmacokinetic drug interaction with examples.
6.	Write a note on Idiosyncrasy.
7.	Explain in detail staff and infrastructure requirement for community pharmacy.
8.	Briefly discuss dispensing of drugs to ambulatory patients.
9.	Write the sources of drug information services.
10.	What are the benefits and risks associated with OTC drug use?
11.	Write a note on budget preparation.
12.	Write short note on VED and EOQ analysis.
13.	What are the objectives of a drug store? Discuss purchasing order.

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**Section- A (10X2=20)**

1.	Give very short answers to the followings:
i.	What is the role of satellite pharmacy?
ii.	Define and classify hospitals according to system of medicine.
iii.	What are the various factors considered during therapeutic drug monitoring?
iv.	Define medication adherence.
v.	Write the formula's to calculate child dose.
vi.	Discuss "The Thalidomide Tragedy" in clinical pharmacy.
vii.	What is Rationale use of OTC Drugs?
viii.	What is hematology?
ix.	Write the importance of computerized services in drug and poison information services.
x.	Write short note on classification of investigational new drug.

**Section- B (2X10=20)**

2.	Explain drug distribution system in hospitals.
3.	Describe classification of adverse drug reaction and discuss reporting and management of ADR.
4.	Discuss in detail about various roles of Pharmacy and Therapeutic Committee.

**Section- C (7X5=35)**

5.	Explain the legal requirements for the establishment of drug store.
6.	Write a note on material management in Community Pharmacy.
7.	What is hospital formulary and describe the contents of formulary.
8.	Explain various biochemical test used for assessment of liver function test.
9.	Discuss various steps for effective patient counselling.
10.	Discuss internal and external training programs in hospitals.
11.	Write a note on classification of budget.
12.	Explain various techniques of inventory control.
13.	Explain the responsibilities of clinical pharmacist in drug therapy.

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**Section- A**

(10 X 2 = 20)

1.	Give very short answers to the followings-
i.	Define idiosyncrasy.
ii.	What is a record linkage study?
iii.	What is medication non-adherence?
iv.	Define coding.
v.	Write the meaning of following abbreviations: a) P.R.N.                      b) A.U.                      c) A.D.                      d) B.S.A.
vi.	What is drug bulletin?
vii.	What are the expenditure accounts?
viii.	Write the goals of medication history interview.
ix.	What is EOQ?
x.	Write the normal value of RBC and WBC in men and women.

**Section- B**

(2 X 10 = 20)

2.	Explain in detail investigational use of drugs (IND).
3.	Write a detail note on internal and external teaching programme.
4.	Write a note on- a) Elaborate role of pharmacist in medication adherence. b) Explain techniques used for measurement of TDM.

**Section- C**

(7 X 5 = 35)

5.	Elaborate roles and responsibilities of hospital pharmacist.
6.	Explain barriers and steps involved in patient counselling.
7.	Draw layout for retail sale and wholesale of drug store.
8.	Explain different types of Adverse Drug Reactions (ADR).
9.	Discuss in detail Hartwig and Seigels Scale.
10.	Write a note on distribution and revision of formulary.
11.	Mention organization and operations of PTC.
12.	What is Ward Round Participation? Write goals and objectives for clinical pharmacist on Ward Rounds.
13.	Discuss briefly about DUR.

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**Section A****(10 X 2 = 20)**

1.	Give very short answers to the following:
i.	What is the dispensing of proprietary products from retail shops?
ii.	What the functions of hospital pharmacist?
iii.	What are the role of pharmacist in the education and training program?
iv.	Enumerate various types of lung volumes.
v.	Define patient compliance.
vi.	What is Inventory control?
vii.	What is the screening test for thyroid disorder?
viii.	Write a comparison between generic and branded product names.
ix.	Communication skills- communication with prescribers and patients
x.	What is the Drug and Poison Information Centre?

**Section B****(2 X 10 = 20)**

2.	Explain the factors affecting medication adherence and how to improve the adherence.
3.	Enumerate in detail various Haematological parameters along with their significance.
4.	What are the legal requirements for the establishment and maintenance of a drug store? How the records of retail and wholesale drug stores are maintained.

**Section C****(7 X 5 = 35)**

5.	Define hospitals and classify them.
6.	Discuss ADR. Classify them with examples.
7.	Describe the development and management of the hospital formulary.
8.	Explain the role of pharmacists in interdepartmental communication and community health education.
9.	Enlighten the rational use of common over-the-counter medications
10.	Define therapeutic drug monitoring. Write a note on pharmacist duties in TDM.
11.	Illustrate various methods used for the analysis of drug expenditure.
12.	Explain the different sources of drug information.
13.	Write a note on the patient medication history.

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**Section- A (10X2=20)**

1.	Give a very short answers to the followings:
i.	Define drug interaction.
ii.	Write significance of hospital formulary.
iii.	What are the various functions of hospital pharmacy?
iv.	What is the minimum qualification required to start a community pharmacy?
v.	Write sources of drug information.
vi.	Differentiate between generic and brand name.
vii.	Give characteristics of budget.
viii.	Define inventory control.
ix.	What are the various risks associated with the use of OTC drugs?
x.	Write significance of ESR value.

**Section- B (2X10=20)**

2.	Explain internal and external training program in hospitals.
3.	Describe the functions, objective and organization structure of hospital pharmacy.
4.	Discuss in detail budget preparation and implementation.

**Section- C (7X5=35)**

5.	What are the legal requirements for the establishment of retail drug store?
6.	Explain adverse drug reaction with classification.
7.	Summarise different techniques for therapeutic drug monitoring.
8.	Explain pharmacist role in medication adherence.
9.	Write a short note on patient counselling.
10.	Explain medication chart review in clinical pharmacy.
11.	Discuss in detail about various roles of PTC.
12.	Describe investigational use of drugs and its principle involved in hospitals.
13.	Explain chemical composition of blood plasma.

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\*\*\* Section C consists of Nine questions carrying 5 marks each (Short Answer); attempt any SEVEN.

**Section- A (10X2=20)**

1.	Give very short answers to the followings:
i.	Define community pharmacy.
ii.	What are the goals of medication history?
iii.	Give characteristics of idiosyncrasy.
iv.	What is coding?
v.	Enlist various techniques of budget.
vi.	What are the objectives of PTC?
vii.	Write the meaning of OD and PRN.
viii.	What is thalidomide tragedy in clinical pharmacy?
ix.	Write various phases of clinical trials.
x.	What do you mean by investigational drugs?

**Section- B (2X10=20)**

2.	Give the purpose of therapeutic drug monitoring. Explain Indian scenario of TDM.
3.	Describe the biochemical test used for assessment of renal and liver function test.
4.	Write a note on location, layout and staff requirement in hospital pharmacy.

**Section- C (7X5=35)**

5.	Explain the barriers and steps involved in patient counselling.
6.	Write a note on classification of budget and budget preparation.
7.	Discuss the various types of hospitals.
8.	Clarify mechanism behind pharmacokinetic drug interaction.
9.	Differentiate between hospital formulary and drug list.
10.	Write a short note on dispensing of drug to ambulatory patients.
11.	Explain misuse and abuse of OTC drugs and give risks associated with OTC use.
12.	Define inventory control and explain any two methods for analysis of inventory control.
13.	Outline the roles of computer services in drug information centre.

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**\*\*\*Section- C** consists of nine questions, each carrying 5 marks (Short Answer Type); Attempt any seven.

**Section- A (10X2=20)**

1.	Give very short answers to the followings:
i.	Write four functions of a hospital pharmacy.
ii.	Classify hospitals.
iii.	Give the full form of TDM.
iv.	Differentiate between a hospital formulary and a drug list.
v.	Write the code of ethics for community pharmacy.
vi.	Write the role of the Drug and Poison Information Centre.
vii.	Define budget.
viii.	Define OTC medications with examples.
ix.	What is an advisory committee?
x.	Write about hematology tests.

**Section- B (2X10=20)**

2.	Write a note on the organizational structure of a hospital and the medical staff involved, along with their functions.
3.	Discuss the Pharmacy and Therapeutic Committee and its functions.
4.	Explain the various methods used for the analysis of drug expenditure.

**Section- C (7X5=35)**

5.	State the meaning of a hospital formulary and outline its key components.
6.	Provide an overview of the various types of budget preparation.
7.	Mention the primary functions and responsibilities of a clinical pharmacist.
8.	Present a brief account of the organization of a drug store.
9.	Summarize the key aspects of urine analysis interpretation.
10.	Examine pharmacokinetic drug interactions with suitable examples.
11.	Outline the standard methods used for dispensing drugs to inpatients.
12.	Highlight the pharmacist's contribution to education and training programs.
13.	Indicate the pharmacist's role in promoting medication adherence.

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**Section- A (10X2=20)**

1.	Give very short answers to the followings:
i.	Define clinical Pharmacy.
ii.	Enlist the various Methods for detecting drug interactions.
iii.	What is hospital formulary?
iv.	Define medication adherence.
v.	Name any two Internal and external training program in the hospital.
vi.	Define adverse drug reaction.
vii.	What do you understand by term inventory control?
viii.	Write the various phases of clinical trials.
ix.	What is prescribed medication order?
x.	Enlist the various methods used for the analysis of the drug expenditure.

**Section- B (2X10=20)**

2.	Explain the Organization, functions, Policies of the pharmacy and therapeutic committee in details.
3.	Explain in brief about the Organization Structure of a Hospital, and Medical staffs involved in the hospital and their functions.
4.	Discuss the major roles of pharmacists in medication history and Pharmaceutical care. How will you fix dosing pattern and drug therapy based on Pharmacokinetic and disease pattern?

**Section- C (7X5=35)**

5.	Discuss in brief about OTC medicines.
6.	Write a note on Economic order quantity method for inventory control.
7.	Write a note on community pharmacy.
8.	Write a comprehensive note on drug information services.
9.	Describe the structure of a retail and whole seller drug store emphasizing its various legal requirements.
10.	Define the patient counselling and discuss different steps involved in patient counselling.
11.	Define purchase and discuss different types of purchasing.
12.	Explain in details the various factors to be considered for therapeutic drug monitoring.
13.	Write a short note on Budget preparation and implementation.

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