



JIJAMATA FOUNDATION

**SHREE P. E. (TATYA) PATIL INSTITUTE OF PHARMACY, JALGAON**

(D. Pharmacy & B. Pharmacy) (Institute Code: MSBTE: 0642, DTE: 5283)

Gat No. 95/1, ChincholiShivar, Near Airport, Aurangabad Road, Jalgaon (M.S.) 425 003

**B PHARMACY INTERNAL EXAMINATION - THEORY**

Acad. Year	: 2023-24	Batch Year	: 2023-27
Semester	: First	Sessional	: Second
Subject	: Human Anatomy and Physiology – I	Subject Code	: BP101T
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 18/12/2023

**I. Answer ALL the questions**

**5 x 2 = 10 Marks**

1. Name the biggest cranial nerve and what are its function?
2. Discuss structure and function of lymph nodes?
3. Draw a neat labelled diagram of eye?
4. What is blood pressure? Give normal value of blood pressure?
5. Explain the term Angina pectoris and myocardial infraction?

**II. Answer any ONE from the following questions**

**1 x 10 = 10 Marks**

1. Discuss anatomy of heart and conduction system of heart?
2. Write a note on PNS and describe ANS?

**III. Answer any TWO from the following questions**

**2 x 5 = 10 Marks**

1. Write a note on physiology of hearing?
2. Discuss the various events in cardiac cycle ?
3. Discuss ABO system?



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**B PHARMACY INTERNAL EXAMINATION - THEORY**

Acad. Year	: 2023-24	Batch Year	: 2023-27
Semester	: First	Sessional	: Second
Subject	: Pharmaceutical Analysis – I	Subject Code	: BP102T
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 19/12/2023

**I. Answer ALL the questions**

**5 x 2 = 10 Marks**

1. Define iodometry and iodimetry?
2. What is a grants plot?
3. Explain Nernst equation?
4. What is polography?
5. Write the application of diazotization titration?

**II. Answer any ONE from the following questions**

**1 x 10 = 10 Marks**

1. Define complexometric titration, give its classification and uses of masking and damasking agent?
2. Explain principle and different types of conductometric titration?

**III. Answer any TWO from the following questions**

**2 x 5 = 10 Marks**

1. Add a note on theories of precipitation titration?
2. Describe the types of redox titration with suitable example?
3. Define gravimetric analysis and explain steps involve in it?



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Acad. Year	: 2023-24	Batch Year	: 2023-27
Semester	: First	Sessional	: Second
Subject	: Pharmaceutics – I	Subject Code	: BP103T
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 20/12/2023

**I. Answer ALL the questions**

**5 x 2 = 10 Marks**

1. Define incompatibility and types of incompatibility?
2. Discuss the various physio-chemical incompatibility?
3. Classify types of suppositories?
4. Differentiate between cocoa butter and synthetic fat?
5. What are gels and types of gels?

**II. Answer any ONE from the following questions**

**1 x 10 = 10 Marks**

1. Describe in detail formulation of semi solid dosage forms?
2. Explain in detail types of incompatibility?

**III. Answer any TWO from the following questions**

**2 x 5 = 10 Marks**

1. Define suppositories and gives formulation?
2. Explain method of preparation and dispensing in suppositories?
3. Describe evaluation of semi solid dosage forms?



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### B PHARMACY INTERNAL EXAMINATION - THEORY

Acad. Year	: 2023-24	Batch Year	: 2023-27
Semester	: First	Sessional	: Second
Subject	: Pharmaceutical Inorganic Chemistry	Subject Code	: BP104T
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 21/12/2023

#### I. Answer ALL the questions

5 x 2 = 10 Marks

1. Define isotopes with example?
2. Explain about haematinics?
3. Define the given terms i) bacteriostatics ii) germicides
4. Give the mechanism of astringents?
5. What is radio activity?

#### II. Answer any ONE from the following questions

1 x 10 = 10 Marks

1. Classify the antimicrobial agent with example and explain MOA with their ideal properties?
2. Explain the classification of antidotes and write the uses of sodium thiosulphate in poisoning?

#### III. Answer any TWO from the following questions

2 x 5 = 10 Marks

1. Add a detail note on half life?
2. What are expectorant, write preparation and uses of ammonium chloride?
3. Define emetics and explain uses of copper sulphate?



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## B PHARMACY INTERNAL EXAMINATION - THEORY

Acad. Year	: 2023-24	Batch Year	: 2023-27
Semester	: First	Sessional	: Second
Subject	: Communication Skills	Subject Code	: BP105T
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 22/12/2023

### I. Answer any ONE from the following questions **1 x 10 = 10 Marks**

1. How many types of communication styles are there in regular communication?
2. Define active listening explain about becoming an active listener?

### II. Answer any TWO from the following questions **2 x 5 = 10 Marks**

1. What is a difference between listening and hearing?
2. Add note on interview.
3. Which point makes your presentation effective?
4. How many types of group discussion are there?
5. Give detail about direct communication style.



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**B PHARMACY INTERNAL EXAMINATION - THEORY**

Acad. Year	: 2023-24	Batch Year	: 2023-27
Semester	: First	Sessional	: Second
Subject	: Remedial Biology	Subject Code	: BP105RBT
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 23/12/2023

**I. Answer any ONE from the following questions** **1 x 10 = 10 Marks**

1. Explain urea cycle?
2. Describe in detail about modes of excretion?

**II. Answer any TWO from the following questions** **2 x 5 = 10 Marks**

1. Explain in detail endocrine gland?
2. Explain female reproductive system?
3. Add a note on minerals and roles of minerals?
4. Discuss factor affecting on photosynthesis?
5. What are the plant growth regulators? Explain any two?



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**B PHARMACY INTERNAL EXAMINATION - THEORY**

Acad. Year	: 2023-24	Batch Year	: 2023-27
Semester	: First	Sessional	: Second
Subject	: Remedial Mathematics	Subject Code	: BP105RMT
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 23/12/2023

**I. Answer any FOUR from the following questions 4 x 5 = 20 Marks**

1. Evaluate the following integrals.

i)  $\int x^3 dx$                       ii)  $\int \sqrt{x} dx$

2. Evaluate  $\int \frac{1}{1+\sin^2 x} dx$

3. Evaluate  $\int \sin(\log x) dx$

4. Solve the following differential equation  $\frac{dy}{dx} = \frac{y}{x} + \tan \frac{y}{x}$

5. Evaluate  $\int_2^5 \frac{\sqrt{x}}{\sqrt{x+\sqrt{7-x}}} dx$

**II. Answer any ONE from the following questions 1 x 10 = 10 Marks**

1. Find the inverse L.T of

i)  $\frac{2s+1}{s^2-4}$

ii)  $\frac{4s+15}{16s^2-25}$

iii)  $\frac{(\sqrt{s}-1)^2}{s^2}$

iv)  $\frac{1}{\sqrt{2s+3}}$

2. Solve  $y' + 10y = t^2; y(0) = 0$