



**G. PULLA REDDY COLLEGE OF PHARMACY  
AUTONOMOUS**

Affiliated to **Osmania University** Approved by **PCI** & Accredited by **NAAC**  
Mehdipatnam, Hyderabad - 500028, Telangana State.

**B. PHARMACY FIRST SEMESTER REGULAR EXAMINATIONS, MARCH – 2026**

**Subject: HUMAN ANATOMY AND PHYSIOLOGY-I**

**Subject Code : BP101T**

**Question Paper Code: BPI01TE26**

**Time: 03 Hours**

**Max Marks: 75**

**SECTION - A**

**10X2 = 20M**

Answer ALL Questions.

Each Question carries 02 Marks

S.No	Questions
1	Define osmosis and diffusion
2	Explain different types of cartilage tissues
3	What is neuromuscular junction and its role
4	Describe axial skeleton and list out the bones of skull
5	Write the functions of thymus gland
6	Mention the composition of lymph
7	List the different types of taste buds and write their functions
8	Define ganglion and write its functions
9	Explain the terms a) tachycardia b) bradycardia.
10	Explain the terms a) stroke volume b) cardiac output

**SECTION – B**

**02X10 = 20M**

Answer Any 02 Questions.

Each Question carries 10 Marks

S.No	Questions
11	Describe the structure of skeletal muscle and explain in detail the steps involved in muscle contraction
12	Define blood pressure and explain its regulation mechanism
13	Explain the structure of skin with neat labelled diagram

**SECTION – C**

**07 X 05 = 35 M**

Answer Any 07 Questions.

Each Question carries 05 Marks

S.No	Questions
14	Define ECG and correlate ECG with the events of cardiac cycle
15	Explain the composition and functions of blood
16	Describe the gustatory pathway to the brain
17	Explain structure and functions of lymph nodes with neat labelled diagram
18	What is a joint? Explain different types of Synovial joints with examples
19	Describe the structure and functions of nervous tissue with diagram
20	List out the various mechanisms that contribute to homeostasis
21	Explain the structure and functions of following bones i) scapula ii) femur
22	List out cranial nerves and write their functions



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**B. PHARMACY FIRST SEMESTER REGULAR EXAMINATIONS, MARCH – 2026**

**Subject: PHARMACEUTICAL ANALYSIS**

**Subject Code : BP102T**

**Question Paper code: BPI02TE26**

**Time: 03 Hours**

**Max Marks: 75**

**SECTION - A**

**10X2 = 20M**

Answer ALL Questions.

Each Question carries 02 Marks

S.No	Questions
1	What are primary and secondary standards? Give one example of each.
2	Define Acidimetry and Alkalimetry
3	Define and mention precipitating agents.
4	Define normality and molarity.
5	What is Masking and list some Masking Agents.
6	Define reducing and oxidizing agent.
7	Define equivalent conductance and molar conductance.
8	What is diazotisation titration?
9	What are Significant figures?
10	Add note on conductivity cell.

**SECTION – B**

**02X10 = 20M**

Answer Any 02 Questions.

Each Question carries 10 Marks

S.No	Questions
11	Explain the classification of acid–base titrations and discuss the neutralization curves of strong and weak acids and bases.
12	Explain precipitation titrations in detail with Mohr's, Volhard's, Modified Volhard's, and Fajans methods.
13	Write the principle and steps involved in Gravimetric analysis?

**SECTION – C**

**07 X 05 = 35 M**

Answer Any 07 Questions.

Each Question carries 05 Marks

S.No	Questions
14	Explain different methods of expressing concentration.
15	Describe non-aqueous titration with examples of solvents.
16	Write a note on estimation of Ephedrine HCl.
17	Write a note on pharmacopoeia and its importance.
18	Explain dichromate titration.
19	Write a note on estimation of calcium gluconate
20	Explain different types of complexometric titrations and write about any three PM indicator
21	Explain conductometric titration curves?
22	Write a note on estimation of barium sulphate.



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**B. PHARMACY FIRST SEMESTER REGULAR EXAMINATIONS, MARCH – 2026**

**Subject: Pharmaceutics I**

**Subject Code : BP103T**

**Question Paper code: BPI03TE26**

**Time: 03 Hours**

**Max Marks: 75**

**SECTION - A**

**10X2 = 20M**

Answer ALL Questions.

Each Question carries 02Marks

S.No	Questions
1	Differentiate Lotions and liniments.
2	Rx.. Mineral oil – 15ml, Water – 60ml, Develop a strategy to overcome pharmaceutical incompatibility in a given formulation.
3	Write about Ideal qualities of preservatives used in pharmaceutical preparations.
4	Write about geometric dilution
5	Define Eye drops and Ear drops.
6	List excipients used in liquid dosage forms.
7	Find out the concentration of sodium chloride required to produce a solution, iso – osmotic with blood plasma. (Given: Mol.wt of Nacl is 58.5)
8	Classify Emulsions.
9	Write the formulas used for dose calculation based on age.
10	Mention the ideal qualities of suspensions.

**SECTION – B**

**02X10 = 20M**

Answer Any 02 Questions.

Each Question carries 10Marks

S.No	Questions
11	Enumerate the various methods employed in the preparation of suppositories. Describe the moulding method in detail.
12	(a) Discuss the development and growth of the pharmaceutical industry in India. (b) Write short notes on gargles, mouthwashes, and throat paints with suitable examples.
13	Describe the different methods used in the preparation of ointments. Explain in detail the fusion method and the chemical reaction method.

**SECTION – C**

**07 X 05 = 35M**

Answer Any 07 Questions.

Each Question carries 05Marks

S.No	Questions
14	Define Physical incompatibilities and explain their causes, examples, and methods of prevention.
15	Describe the various stability problems in emulsions and methods to overcome.
16	What is over proof & under proof? Calculate the strength of 30 <sup>0</sup> O.P & 40 <sup>0</sup> U.P
17	Explain the mechanisms involved in the dermal penetration of drugs through the skin.
18	Write a brief account on dusting powders.
19	Describe the structure and contents of the Indian Pharmacopoeia monograph for any one drug in detail
20	Classify suspending agents. Differentiate Flocculated and Deflocculated suspensions.
21	Describe the role of professional pharmacy organizations in shaping the pharmacy profession in India.
22	Define Suppositories. Explain cold compression method used in preparation of suppositories.



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**B. PHARMACY FIRST SEMESTER REGULAR EXAMINATIONS, MARCH – 2026**  
**Subject: PHARMACEUTICAL INORGANIC CHEMISTRY**

**Subject Code : BP104T**

**Question Paper Code: BPI04TE26**

**Time: 03 Hours**

**Max Marks: 75**

**SECTION - A**

**10X2 = 20M**

Answer ALL Questions.

Each Question carries 02 Marks

S. No	Questions
1	Give a note on Indian Pharmacopoeia.
2	Discuss the principle involved in the limit test for iron.
3	What is buffer tonicity.
4	Write a note on oral rehydration salts.
5	Define acidifier. Mention the uses of Dil. HCl.
6	Discuss the preparation methods of magnesium sulphate.
7	Give a note on activated charcoal.
8	Define emetics and mention the uses of sodium potassium tartrate.
9	Describe about radio isotopes with suitable examples.
10	Outline the precautions of radioactive substances.

**SECTION – B**

**02X10 = 20M**

Answer Any 02 Questions.

Each Question carries 10 Marks

S. No	Questions
11	Define antacids. Explain the monograph of sodium bicarbonate and aluminium hydroxide gel.
12	Illustrate principle and procedure involved in the limit test for arsenic.
13	Write the preparation, assay and uses of sodium thiosulphate and ammonium chloride.

**SECTION – C**

**07 X 05 = 35 M**

Answer Any 05 Questions.

Each Question carries 05 Marks

S. No	Questions
14	Define and classify antimicrobials. Explain the Preparation methods of boric acid.
15	Illustrate about the types of impurities.
16	Summarize about limit test for chlorides and sulphates.
17	Outline the pharmaceutical application of radioactive substances.
18	What are Cathartics. Explain about kaolin and bentonite.
19	Describe the preparation and assay of calcium gluconate.
20	Discuss the ideal properties of antacids, and combinations of antacids.
21	Define Emetics and explain about any one drug.
22	Discuss about preparation, assay, and uses of sodium fluoride.



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**B. PHARMACY FIRST SEMESTER REGULAR EXAMINATIONS, MARCH – 2026**

**Subject: COMMUNICATION SKILLS**

**Subject Code: BP105T**

**Question Paper Code: BPI05TE26**

**Time: 1.5 Hours**

**Max Marks: 35**

**SECTION – A**

**01X10 = 10M**

Answer Any **01** Question.

Each Question carries 10 Marks

S. No	Questions
1.	Evaluate how adapting communication style improves workplace relationships.
2.	How to write effectively by knowing the audience.

**SECTION – B**

**05 X 05 = 25 M**

Answer Any **05** Questions.

Each Question carries 05 Marks

S. No	Questions
3.	Illustrate how feedback improves the effectiveness of communication.
4.	Compare verbal and non-verbal communication.
5.	Demonstrate how subject lines influence professional emails.
6.	List and explain the do's and don'ts of an interview.
7.	Analyze the roles and responsibilities of participants in group discussions.
8.	Differentiate between physiological and psychological barriers with examples.
9.	Discuss the shades of meeting.



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**B. PHARMACY FIRST SEMESTER REGULAR EXAMINATIONS, MARCH – 2026**

**Subject: REMEDIAL MATHEMATICS**

**Subject Code: BP106RMT**

**Question Paper Code: BPI06MTE26**

**Time: 1.5 Hours**

**Max Marks: 35**

**SECTION – A**

**01X10 = 10M**

Answer Any **01** Questions.

Each Question carries 10 Marks

S.No	Questions
1	Solve the equations by Cramer's rule $3x + 4y + 5z = 18$ , $2x - y + 8z = 13$ , $5x - 2y + 7z = 20$
2	Resolve $\frac{x+4}{(x^2-4)(x+1)}$ into partial fractions.

**SECTION – B**

**05 X 05 = 25 M**

Answer Any **05** Questions.

Each Question carries 05 Marks

S.No	Questions
3	Find the value of ${}_5 \log_{25} 81$
4	If $A = \begin{pmatrix} 2 & -1 & 2 \\ 1 & 3 & -4 \end{pmatrix}$ and $B = \begin{pmatrix} 1 & -2 \\ -3 & 0 \\ 5 & 4 \end{pmatrix}$ then verify that $(AB)^T = B^T A^T$
5	If $A = \begin{bmatrix} 1 & -2 & 1 \\ 0 & 1 & -1 \\ 3 & -1 & 1 \end{bmatrix}$ then find $A^3 - 3A^2 - A - 3I$
6	Find the derivative of $e^x \sin x$ .
7	Find the x and y intercepts and also slope of the line $2x + 3y + 7 = 0$
8	Evaluate $\int \frac{dx}{\sqrt{x^2 + 2x + 17}}$
9	Find the Laplace transform of $\frac{2}{t} + e^{-3t}$



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**B. PHARMACY FIRST SEMESTER REGULAR EXAMINATIONS, MARCH – 2026**

**Subject: REMEDIAL BIOLOGY**

**Subject Code: BP106RBT**

**Question Paper Code: BPI06BTE26**

**Time: 02 Hours**

**Max Marks: 35**

**SECTION – A**

**01X10 = 10M**

Answer Any **01** Question.

Each Question carries 10 Marks

S.No	Questions
1.	Draw a neat labelled diagram of a cell and describe all the parts
2.	Describe the phases of photosynthesis

**SECTION – B**

**05 X 05 = 25 M**

Answer Any **05** Questions.

Each Question carries 05 Marks

S.No	Questions
3.	Describe the factors affecting Photosynthesis
4.	Explain Binomial nomenclature with rules and examples.
5.	Explain different types of inflorescence.
6.	Write short notes on monocot and dicot roots.
7.	Describe the structure and functions of leaf.
8.	Describe the structure of a typical flower.
9.	Define essential minerals and classify macro and micronutrients.