Course Code:BP101T

Hall Ticket Number

SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA (Co-Ed.)

(Sponsored by the Exhibition Society), Tarnaka, Secunderabad
UGC Autonomous Institution

B.Pharmacy (PCI) SEMESTER I (Regular) Examination, MARCH-2026
Question Paper Code : 1101

Human Anatomy & Physiology I

Exam Date: 11-03-2026 Session: 10:00AM to 1:00PM
Time: 3 Hours Max. Marks: 75

PART-A

Answer all questions. 10 X 2 = 20

1. Compare and contrast the Cytosol and Cytoplasm. *(CO:I, BL: IV)*
2. List out and differentiate the two types of facilitated diffusion. *(CO:I, BL: IV)*
3. Define articulation. How are joints classified based on movement? *(CO:II, BL: I)*
4. Illustrate the function of sebaceous glands. *(CO:II, BL: II)*
5. Describe the role of reticuloendothelial tissue in hematological disorders. *(CO:III, BL: II)*
6. List out the organs which do not possess lymphatic system *(CO:III, BL: I)*
7. List out types of papillae that contain taste buds. *(CO:IV, BL: II)*
8. List out Cranial nerves with a note on their main functions *(CO:IV, BL: I)*
9. List out various valves of the heart? Explain their functions. *(CO:V, BL: I)*
10. Describe the phases of the action potential in ventricular muscle fibers. *(CO:V, BL: II)*

PART-B

Answer any **2** questions. 2 X 10 = 20

11. Describe the different phases involved in cell cycle and illustrate the cell division. *(CO:I, BL: II)*
12. Describe the structure of the skin and discuss the functions of its layers. *(CO:II, BL: II)*
13. Define blood pressure, and explain the physiological mechanisms that regulate it in the body. *(CO:V, BL: II)*

PART-C

Answer any **7** questions. 7 X 5 = 35

14. Describe various levels of structural organization and body systems. *(CO:I, BL: II)*
15. Categorize various connective tissues and illustrate the connective tissue and its organization. *(CO:I, BL: IV)*
16. What are the stucture and function of joints? *(CO:II, BL: IV)*
17. Categorize and explain the division of the skeletal system *(CO:II, BL: IV)*
18. Classify anemia and explain the different types *(CO:III, BL: II)*
19. Explain the physiology and functions of lymphocytes in regulating resistance of the body to the infection *(CO:III, BL: V)*
20. Compare and contrast the sympathetic and parasympathetic divisions of the autonomic nervous system. *(CO:IV, BL: IV)*
21. Illustrate the structure and anatomy of the eye with a neat labeled diagram. *(CO:IV, BL: II)*
22. List out and illustrate any three heart disorders, including their causes, symptoms, and types. *(CO:V, BL: II)*

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QP CODE: 1102

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SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA (Co-Ed.)(Autonomous)
B.Pharmacy (PCI) SEMESTER I (Main) Examination, MARCH-2026

Course : PHARMACEUTICAL ANALYSIS

Time:3 Hours | Max. Marks: 75

PART-A

Answer all questions. 10 X 2 = 20

1. Classify various types of errors? *(CO:I, BL: II)*
2. How do you prepare 0.1N sodium carbonate? *(CO:I, BL: V)*
3. What is Arrhenius base? *(CO:II, BL: I)*
4. What is conjugate base? *(CO:II, BL: IV)*
5. Write the application of Complexometrix tritrations? *(CO:III, BL: II)*
6. What is the difference between Masking and demasking in Complexometry? *(CO:III, BL: IV)*
7. What is redox titration? *(CO:IV, BL: II)*
8. Define oxidising and reducing agents with examples. *(CO:IV, BL: I)*
9. What is a conductivity cell? *(CO:V, BL: II)*
10. What is a reference electrode, and give examples? *(CO:V, BL: III)*

PART-B

Answer any **2** questions. 2 X 10 = 20

11. Write the principle and procedure for the limit test for chlorides? *(CO:I, BL: III)*
12. Discuss the principles and applications of precipitation titrations, including Mohr's method and Volhard's method. *(CO:III, BL: III)*
13. Explain the concept of neutralization curves *(CO:II, BL: II)*

PART-C

Answer any **7** questions. 7 X 5 = 35

14. What are the numbering rules in computation of significant figures? *(CO:I, BL: IV)*
15. How do you prepare a 0.2M/0.1N Sulfuric acid solution of 1L capacity? *(CO:I, BL: IV)*
16. Classify and explain the solvents used in non aqueous titrations with examples? *(CO:II, BL: IV)*
17. Explain the various types of complexometric titrations. *(CO:III, BL: IV)*
18. Discuss the steps involved in gravimetric analysis. *(CO:III, BL: III)*
19. Describe the principle and applications of cerimetry. *(CO:IV, BL: III)*
20. Explain the principle and applications involved in dichrometric titrations. *(CO:IV, BL: IV)*
21. Explain the principle and applications of conductometric titrations. *(CO:V, BL: III)*
22. Discuss the different acid-base conductometric titrations. *(CO:V, BL: IV)*

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SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA (Co-Ed.)(Autonomous)
B.Pharmacy (PCI) SEMESTER I (Main) Examination, MARCH-2026

Course : Pharmaceutics-I

Time:3 Hours | Max. Marks: 75

PART-A

Answer all questions. 10 X 2 = 20

1. What is superscription in a prescription? *(CO:I, BL: I)*
2. What is the importance of pharmacopoeias in maintaining drug standards. *(CO:I, BL: I)*
3. What is alligation method? *(CO:II, BL: I)*
4. What is co-solvency? *(CO:II, BL: I)*
5. Mention the various Monophasic liquids for external use with examples. *(CO:III, BL: I)*
6. Enlist advantages Monophasic liquid dosage form. *(CO:III, BL: I)*
7. Define Suppositories. *(CO:IV, BL: I)*
8. What do you mean by Physical incompatibility. Give an example *(CO:IV, BL: I)*
9. Enlist any two preservatives used in jellies. *(CO:V, BL: I)*
10. What are the advantages of Water soluble ointment bases. *(CO:V, BL: I)*

PART-B

Answer any **2** questions. 2 X 10 = 20

11. Explain the evolution of pharmacy profession in India. *(CO:I, BL: II)*
12. Explain various instabilities of Emulsions and discuss in detail about various causes and Preventive methods to overcome stability problems. *(CO:III, BL: II)*
13. What are chemical incompatiabilities and explain the causes and remedy of two chemical incompatibilities with examples *(CO:IV, BL: II)*

PART-C

Answer any **7** questions. 7 X 5 = 35

14. Explain various factors affecting posology. *(CO:I, BL: II)*
15. Classify the powders with examples. *(CO:II, BL: II)*
16. Define Proof spirit. Find the strength of 95 %v/v and 20 % v/v alcohol in terms of proof spirit. *(CO:II, BL: III)*
17. Explain the importance of solvents in liquid formulations. *(CO:II, BL: II)*
18. Distinguish between Flocculated and Deflocculated Suspension. *(CO:III, BL: IV)*
19. Differentiate between the syrups and Elixirs *(CO:III, BL: IV)*
20. Explain the physico-chemical factors affecting drug absorption in Suppositories *(CO:IV, BL: II)*
21. Explain the factors influencing the permeability of drugs for semisolid dosage forms. *(CO:V, BL: V)*
22. Explain the methods of evaluation of ointments *(CO:V, BL: V)*

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SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA (Co-Ed.)(Autonomous)
B.Pharmacy (PCI) SEMESTER I (Main) Examination, MARCH-2026

Course : Pharmaceutical Inorganic Chemistry

Time:3 Hours | Max. Marks: 75

PART-A

Answer all questions. 10 X 2 = 20

1. Define Monograph? *(CO:I, BL: I)*
2. What are impurities ? *(CO:I, BL: I)*
3. What are buffer solutions? *(CO:II, BL: I)*
4. What is replacement therapy? *(CO:II, BL: II)*
5. Mention the method of preparation and uses of Sodium flouride? *(CO:II, BL: V)*
6. Why are Aluminum hydroxide and Magnesium hydroxide commonly combined in antacid preparations? *(CO:III, BL: III)*
7. Write the uses of antimicrobials in pharmaceutical practice. *(CO:III, BL: II)*
8. Define expectorants. Give two examples. *(CO:IV, BL: I)*
9. In a case of accidental poisoning (non-corrosive), which emetic can be used and why? *(CO:IV, BL: III)*
10. Evaluate the pharmaceutical applications of radioactive substances. *(CO:V, BL: V)*

PART-B

Answer any **2** questions. 2 X 10 = 20

11. Discuss about the principle and procedure invoved in the Limit test for Arsenic with neat labelled diagram? *(CO:I, BL: III)*
12. Explain radioactivity, measurement of radioactivity, properties of α, β and γ radiations, and half-life. Discuss the role of Sodium iodide (I^{131}) as a radioisotope. *(CO:V, BL: II)*
13. Demonstrate the general method of preparation and assay of Sodium thiosulphate and explain the role of Sodium nitrite and Activated charcoal in poisoning management. *(CO:IV, BL: III)*

PART-C

Answer any **7** questions. 7 X 5 = 35

14. Illustrate the method employed in the preparation of test solution and standard solution in the modified limit test for chlorides . *(CO:I, BL: V)*
15. Enlist the types of limit tests in inorganic chemistry. *(CO:I, BL: III)*
16. Briefly explain about the Dentifrices. *(CO:II, BL: IV)*
17. Explain the method of preparation ,assay,properties and uses of Sodium chloride . *(CO:II, BL: I)*
18. Explain the different types of buffers with examples. *(CO:II, BL: II)*
19. Give the definition, examples and uses of cathartics. *(CO:III, BL: I)*
20. Define gastrointestinal agents and acidifiers. Write examples and uses of acidifiers. *(CO:III, BL: I)*
21. Apply your knowledge of haematinics to explain the general method of preparation and assay of Ferrous sulphate and mention its therapeutic use. *(CO:IV, BL: III)*
22. Demonstrate the general method of preparation and assay of Copper sulphate and explain its action as an emetic. *(CO:IV, BL: III)*

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SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA (Co-Ed.)(Autonomous)
B.Pharmacy (PCI) SEMESTER I (Main) Examination, MARCH-2026

Course : COMMUNICATION SKILLS

Time:1 Hour :30 mins | Max. Marks: 35

PART-A

Answer any **1** questions. 1 X 10 = 10

1. Explain in detail verbal and non-verbal communication and their interrelationship. *(CO:II, BL: IV)*
2. How to give a presentation: explain the full process that integrates clear delivery techniques, appropriate visual aids, and effective nonverbal communication. *(CO:IV, BL: VI)*

PART-B

Answer any **5** questions. 5 X 5 = 25

3. Describe the roles of the source (sender) and receiver in effective communication. *(CO:I, BL: I)*
4. Explain the role of eye contact and facial expressions in effective face-to-face communication. *(CO:II, BL: II)*
5. Illustrate how poor listening skills can lead to misunderstandings in professional communication. *(CO:III, BL: IV)*
6. Define an interview and explain any four objectives of the interview process. *(CO:IV, BL: I)*
7. Evaluate how leadership and teamwork skills influence the outcome of a group discussion. *(CO:V, BL: V)*
8. Apply tone of voice variations in professional communication scenarios. *(CO:II, BL: III)*
9. List and explain the do's and don'ts of an interview. *(CO:IV, BL: II)*

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SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA (Co-Ed.)(Autonomous)
B.Pharmacy (PCI) SEMESTER I (Main) Examination, MARCH-2026

Course : REMEDIAL MATHEMATICS

Time:1 Hour :30 mins | Max. Marks: 35

PART-A

Answer any **1** questions. 1 X 10 = 10

1. Find Adjoint and Inverse of the Matrix $\begin{bmatrix} 2 & 1 & 2 \\ 1 & 0 & 1 \\ 2 & 2 & 1 \end{bmatrix}$ *(CO:II, BL: V)*
2. Find laplace transform of $e^{-2t}(2cos5t - 3sin5t)$ *(CO:V, BL: III)*

PART-B

Answer any **5** questions. 5 X 5 = 25

3. Evaluate $\lim_{x \to 3} \frac{x^3 - 27}{x - 3}$ *(CO:I, BL: II)*
4. Given A= $\begin{bmatrix} 3 & -5 \\ -4 & 2 \end{bmatrix}$ .Show that $A^2 - 5A - 14I = 0$ *(CO:II, BL: III)*
5. Differentiate the function $y = x^4 + 9x^2 + lnx - cosx + 100$ *(CO:III, BL: I)*
6. $Solve \int x^2 e^x dx$ *(CO:IV, BL: III)*
7. Find order and degree of $(1 + \frac{d^2y}{dx^2}) = (2 + (\frac{dy}{dx})^{10})^{\frac{3}{7}}$ *(CO:V, BL: I)*
8. If $(3.4)^x = (0.034)^y = 10000$. find the value of $\frac{1}{x} - \frac{1}{y}$ *(CO:I, BL: II)*
9. Find the value of y, if line joining (3,y) and (2,7) slope equal to the line joining (-1,4) and (0,6) (CO:IV, *BL: I)*

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