

PRACTICE SET FOR SUBJECTIVE QUESTIONS
End Semester (I Semester) Examination, Dec, 2025

Program: B. Pharm

Subject: Remedial Biology (Theory)

Subject Code: BP106RBT

Unit I			
S No.	Questions	CO	Bloom's Taxonomy Level
Section II		Questions for 5 marks	
1	Explain Binomial nomenclature and elucidate the rules specified for writing binomial nomenclature.	CO1	Understand
2	Distinguish between dicots and Monocots.	CO1	Understand
3	What is the significance of binomial nomenclature in the field of taxonomy and biological classification?	CO1	Understand
4	Provide an overview of the Kingdom Monera.	CO1	Remember
5	Differentiate between Prokaryotes and Eukaryotes	CO1	Understand
Section III		Questions for 10 marks	
6	Justify why Viruses are not included in any kingdom of classification and write detail note on characteristics of five kingdom.	CO1	Analyze
7	Explain the concept of the five-kingdom classification system for living organisms in detail and why this classification is important.	CO1	Evaluate
Unit II			
S No.	Questions	CO	Bloom's Taxonomy Level
Section II		Questions for 5 marks	
8	Explain the differences between arteries, veins and capillaries in the cardiovascular system.	CO2	Understand
9	Explain the constituents and function of Blood.	CO2	Remember
10	What is ECG? Briefly explain about each component of ECG.	CO2	Remember
11	Explain a brief note on ABO system of blood grouping.	CO2	Understand
12	What is cardiac cycle? Explain the various events of cardiac cycle.	CO2	Remember

Section III			Questions for 10 marks
13	Explain how the internal anatomy of the heart helps in proper blood circulation with a neat labelled diagram.	CO2	Analyze
14	Describe the digestive process, commencing from the oral cavity and concluding in the small intestine, accompanied by a clear illustration.	CO2	Analyze
Unit III			
S No.	Questions	CO	Bloom's Taxonomy Level
Section II			Questions for 5 marks
15	Explain various lung volume and lung capacities along with normal values.	CO3	Remember
16	Discuss the importance of the renin-angiotensin-aldosterone system in regulating blood pressure and electrolyte balance.	CO3	Understand
17	Elaborate on the stages of urine formation in the nephron, encompassing filtration, reabsorption, and secretion.	CO3	Understand
18	Explain the pituitary gland by enlisting hormones secreted from the pituitary gland.	CO3	Understand
19	Define spermatogenesis and describe the functioning of the hormone responsible for this process.	CO3	Remember
Section III			Questions for 10 marks
20	Illustrate the structure and functions of the brain with a neat labeled diagram.	CO3	Analyze
21	Summarize the breathing process, encompassing the mechanisms of inhalation and exhalation with diagram.	CO3	Analyze
Unit IV			
S No.	Questions	CO	Bloom's Taxonomy Level
Section II			Questions for 5 marks
22	Provide a definition for photosynthesis. Explain the concept of photorespiration.	CO4	Remember
23	Define nutrients and elucidate the significance of Phosphorous in plants.	CO4	Understand
24	Explain the role of ammonification in nitrogen cycle	CO4	Understand
25	What is the difference between light and dark reaction?	CO4	Understand
26	Explain macro and microelements with examples?	CO4	Remember
Section III			Questions for 10 marks
27	Provide an overview of the nitrogen metabolism.	CO4	Analyze
28	Justify how the biological nitrogen fixation cycle works with different examples.	CO4	Evaluate
Unit V			
S No.	Questions	CO	Bloom's Taxonomy Level
Section II			Questions for 5 marks
29	Explain the following:- a) Cell Membrane b) Mitochondria c) Golgi Complex d) Nucleus	CO5	Remember
30	Explain the concept of fermentation and list examples of food	CO5	Understand

	products that necessitate this process.		
31	What is absolute and relative growth rate?	CO5	Understand
32	Differentiate between mitosis and meiosis	CO5	Understand
33	Define plant growth regulators? Write are their characteristics.	CO5	Remember
Section III		Questions for 10 marks	
34	Outline the Glycolysis pathway and explain why anaerobic respiration yields less energy compared to aerobic respiration.	CO5	Evaluate
35	Elaborate Fluid-mosaic-model with help of an illustrative diagram.	CO5	Analyze

Course Outcome (CO)

On the successful completion of the Course, students will be able to:-

CO1: To understand the characters of living organisms and classification of kingdoms

CO2: To develop basic knowledge on morphology and functions of various plant parts such as root, stem, leaf, flower, fruit and seed.

CO3: To analyze functions of organs in the cardiovascular, digestive and respiratory systems of human body.

CO4: To determine role of hormones in regulation of various organs functioning in the body and process of oogenesis and spermatogenesis.

CO5: To elaborate the physiology, nutrient requirements for plants and to predict plant/animal tissues.

Summary Sheet

CO Wise

CO	Q. No	Marks
CO1	1, 2, 3, 4, 5, 6, 7	45
CO2	8, 9,10,11, 12, 13, 14	45
CO3	15, 16, 17, 18, 19, 20, 21	45
CO4	22, 23, 24, 25, 26, 27, 28	45
CO5	29, 30, 31, 32, 33, 34, 35	45
Total		225

Unit Wise

Unit	Q. No	Marks
Unit 1	1, 2, 3, 4, 5, 6, 7	45
Unit 2	8, 9,10,11, 12, 13, 14	45
Unit 3	15, 16, 17, 18, 19, 20, 21	45
Unit 4	22, 23, 24, 25, 26, 27, 28	45
Unit 5	29, 30, 31, 32, 33, 34, 35	45
Total		225

Blooms Taxonomy Level (BTL) Wise

BTL	Q. No	Marks
LOT	1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 15, 16, 17, 18, 19, 22, 23, 24, 25, 26, 29, 30, 31, 32, 33	125
HOT	6, 7, 13, 14, 20, 21, 27, 28, 34, 35	100
Total		225

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Disclaimer: -This is a Practice Set. The Question in End term examination will differ from the Practice Set. This Practice Set is meant for practice only.