PRACTICE SET
End Semester Examination, Dec - 2025

Program: BMLT
Semester: I
Course: Human Anatomy and Physiology-I
Course Code: 42ABMT- 001

Course Outcomes	Description
CO1	Understand the basics of anatomy and physiology and their functions.
CO2	Understand the contributions of anatomical system, structure of skeleton system and its applications.
CO3	Understand about the body fluids and their classifications, morphology, function
CO4	Understand about the anatomy of respiratory, digestive, liver and their functions that help for medical technology.
CO5	Understand about the human circulatory system and concepts of blood circulation and challenges of abnormalities.

Section- A **(30 x 5=150)**

1. Define "cell" and list two types of cells in the human body. **[Unit- I, CO1, Remember, LOT]**
2. Explain the structure and function of the cell membrane in brief. **[Unit- I, CO1, Understand, LOT]**
3. Differentiate between organ and organ system with one example. **[Unit- I, CO1, Analyze, HOT]**
4. List three cell organelles and one primary function of each. **[Unit- I, CO1, Remember, LOT]**
5. Review how cellular organization contributes to body homeostasis. **[Unit-I, CO1, Evaluate, HOT]**
6. Describe two characteristics that define living organisms. **[Unit- I, CO1, Remember, LOT]**
7. Explain the types and structure of bones. **[Unit- II, CO2, Understand, LOT]**
8. Define skeletal system and mention its divisions. **[Unit- II, CO2, Remember, LOT]**
9. Compare axial and appendicular skeletons. **[Unit-II, CO2, Analyze, HOT]**
10. Describe the classification of joints with examples. **[Unit- II, CO2, Remember, LOT]**
11. Simplify the process of bone growth and development. **[Unit- II, CO2, Analyze, HOT]**
12. Discuss the importance of muscles in body movement. **[Unit- II, CO2, Evaluate, HOT]**

13. Define blood and explain its functions. **[Unit-III, CO3, Remember, LOT]**
14. Explain the ABO and Rh blood group systems. **[Unit- III, CO3, Understand, LOT]**
15. Describe the morphology of RBC, WBC, and platelets. **[Unit- III, CO3, Understand, LOT]**
16. Discuss the mechanism of blood coagulation. **[Unit- III, CO3, Analyze, HOT]**
17. Differentiate between coagulants and anticoagulants. **[Unit- III, CO3, Analyze, HOT]**
18. Evaluate the clinical significance of hemopoiesis. **[Unit- III, CO3, Evaluate, HOT]**
19. Name the organs involved in the respiratory system. **[Unit- IV, CO4, Remember, LOT]**
20. Describe the anatomy and function of lungs. **[Unit- IV, CO4, Understand, LOT]**
21. Explain the process of digestion and absorption. **[Unit- IV, CO4, Analyze, HOT]**
22. Discuss the structure and functions of the liver. **[Unit-IV, CO4, Understand, LOT]**
23. Compare upper and lower respiratory tracts. **[Unit- IV, CO4, Analyze, HOT]**
24. Evaluate how respiratory and digestive systems coordinate to maintain homeostasis. **[Unit- IV, CO4, Evaluate, HOT]**
25. Define the cardiovascular system and its main organs. **[Unit- V, CO5, Remember, LOT]**
26. Describe the structure of the human heart. **[Unit- V, CO5, Remember, LOT]**
27. Explain the flow of blood circulation through the heart. **[Unit- V, CO5, Understand, LOT]**
28. Differentiate between systemic and pulmonary circulation. **[Unit- V, CO5, Analyze, HOT]**
29. Simplify the phases of the cardiac cycle. **[Unit- V, CO5, Analyze, HOT]**
30. Evaluate the impact of hypertension on the cardiovascular system. **[Unit-V, CO5, Evaluate, HOT]**

Section- B **(15x10=150)**

31. Describe in detail the structural organization of the human body. **[Unit-I, CO1, Remember, LOT]**
32. Illustrate the anatomy and physiological characteristics of human beings. **[Unit- I, CO1, Apply, LOT]**
33. Evaluate the interrelationship between cells, tissues, and organs. **[Unit- I, CO1, Evaluate, HOT]**
34. Discuss the different types of bones and their functions. **[Unit- I, CO1, Understand, LOT]**
35. Explain the structure, types, and functions of joints. **[Unit-II, CO2, Understand, LOT]**
36. Analyse the role of skeletal muscles in locomotion and posture. **[Unit- II, CO2, Analyze, HOT]**
37. Describe the morphology and functions of blood cells. **[Unit- III, CO3, Understand, LOT]**
38. Explain the process of blood coagulation and its regulation. **[Unit- III, CO3, Understand, LOT]**
39. Evaluate the significance of blood grouping in transfusion medicine. **[Unit- III, CO3, Evaluate, HOT]**
40. Discuss the anatomy of the respiratory system and mechanism of respiration. **[Unit- IV, CO4, Understand, LOT]**
41. Explain the structure and function of the digestive system. **[Unit-IV, CO4, Understand, LOT]**
42. Analyse the role of the liver in metabolism and detoxification. **[Unit- IV, CO4, Analyze, HOT]**
43. Describe the anatomy and function of the human heart. **[Unit- V, CO5, Remember, LOT]**
44. Explain the cardiac cycle and its regulation. **[Unit- V, CO5, Understand, LOT]**
45. Evaluate the causes and consequences of cardiovascular abnormalities. **[Unit- V, CO5, Evaluate, HOT]**

Section C **(10 x 20=200)**

46. Discuss the structure and function of cell organelles in detail. **[Unit- I, CO1, Understand, LOT]**
47. Evaluate how the structural organization of the body supports integrated physiological functions. **[Unit-I, CO1, Evaluate, HOT]**
48. Describe the classification, anatomy, and physiological importance of bones and joints. **[Unit-II, CO2, Remember, LOT]**
49. Analyse the functional interrelationship between bones, joints, and muscles during movement.

[Unit- II, CO2, Analyze, HOT]

50. Describe the formation, composition, and physiological roles of blood and body fluids.
[Unit- III, CO3, Remember, LOT]

51. Evaluate the pathological effects of abnormalities in blood composition.
[Unit- III, CO3, Evaluate, HOT]

52. Explain the complete process of digestion, absorption, and metabolism.
[Unit- IV, CO4, Understand, LOT]

53. Analyse the anatomical and physiological correlation between the liver, digestive, and respiratory systems.
[Unit-IV, CO4, Analyze, HOT]

54. Describe the structure, blood flow, and function of the cardiovascular system.
[Unit- V, CO5, Remember, LOT]

55. Evaluate the diagnostic significance of blood pressure, cardiac output, and heart sounds.
[Unit-V, CO5, Evaluate, HOT]

Summary Sheet

CO Wise

CO	Q. No	Marks
CO1	1,2,3,4,5,6,31,32,33,46,47	100
CO2	7,8,9,10,11,12,34,35,36,48,49	100
CO3	13,14,15,16,17,18,37,38,39,50,51	100
CO4	19,20,21,22,23,24,40,41,42,52,53	100
CO5	25,26,27,28,29,30,43,44,45,54,55	100
Total		**500**

Unit Wise

Unit	Q. No	Marks
Unit- I	1,2,3,4,5,6,31,32,33,46,47	100
Unit - II	7,8,9,10,11,12,34,35,36,48,49	100
Unit - III	13,14,15,16,17,18,37,38,39,50,51	100
Unit - IV	19,20,21,22,23,24,40,41,42,52,53	100
Unit - V	25,26,27,28,29,30,43,44,45,54,55	100
Total		**500**

Blooms Taxonomy Level (BTL) Wise

BTL	Q. No.	Marks
LOT	1,2,4,6,7,8,10,13,14,15,19,20,22,25,26,27,31,34, 35, 37, 38, 40, 41, 43, 44, 46, 48,50, 52, 54	270
HOT	3, 5, 9, 11, 12, 16, 17, 18, 21, 23, 24, 28, 29, 30, 31, 32, 33, 36, 39, 42, 45, 47, 49, 51, 53, 55	230
Total		**500**

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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.