



JHARKHAND Rai University RANCHI

PRACTICE SET End Semester Examination, Dec 2025

Program: Bachelor of Physiotherapy (BPT)

Semester: I

Course: Anatomy – I

Course Code: 23A101

Course Outcomes

CO1: Understanding the human anatomical structures.

CO2: Analyzing General Human Anatomy.

CO3: Identifying and differentiating normal and applied anatomy of soft tissues, hard tissues, and joints.

SECTION – A:

(20 × 5 = 100 Marks)

1. Define anatomy and write about its branches. [CO1] [Unit 1] [LOT][REMEMBER]
2. Write about the different axial and plane of the human body. [CO1] [Unit 1] [LOT][REMEMBER]
3. Describe the main body cavities and their contents. [CO1] [Unit 1] [LOT][UNDERSTAND]
4. Write a short note on connective tissue and its types. [CO1] [Unit 1] [LOT][REMEMBER]
5. Explain the structure and function of a neuron. [CO1] [Unit 1] [LOT][REMEMBER]
6. What are the functions of the cell organelles? [CO1] [Unit 1] [LOT][REMEMBER]
7. Define bone. Write its types and examples. [CO1] [Unit 1] [LOT][REMEMBER]

8. Define ossification and explain its types. [CO1] [Unit 1] [LOT][UNDERSTAND]
9. Write short note on structure and types of muscles. [CO2] [Unit 1] [LOT][UNDERSTAND]
10. Define a joint and write its classification. [CO1] [Unit 1] [LOT][REMEMBER]
11. Write a note on the lymphatic system and its function. [CO2] [Unit 1] [LOT][REMEMBER]
12. List the major arteries and veins of the upper limb. [CO2] [Unit 1] [LOT][REMEMBER]
13. Describe the structure and function of synovial joints. [CO3] [Unit 1] [LOT][REMEMBER]
14. Write short note on tendons and membranes. [CO3] [Unit 1] [LOT][REMEMBER]
15. Name the major joints of the upper limb and their type. [CO3] [Unit 2] [LOT][REMEMBER]
16. Write short note on the bony landmarks of the scapula. [CO3] [Unit 2] [LOT][REMEMBER]
17. Describe the structure and movements of the elbow joint. [CO3] [Unit 2]
[LOT][REMEMBER]
18. Write short note on the sciatic nerve. [CO3] [Unit 6] [LOT][REMEMBER]
19. Mention the origin, insertion, and action of biceps brachii. [CO3][Unit
3][LOT][REMEMBER]
20. Define and classify joints with examples. [CO3] [Unit 2] [LOT][REMEMBER]

SECTION – B:

(10 × 10 = 100 Marks)

21. Apply your knowledge of bone anatomy to explain how its structure supports the process of bone growth and remodeling with relevant examples. [CO1] [Unit 1] [HOT][APPLY]
22. Analyze the various classifications of synovial joints and their structural adaptations in relation to movement, citing suitable examples. [CO3] [Unit 2] [HOT][ANALYZE]
23. Apply your understanding of muscle anatomy to differentiate the structural and functional properties of various muscle tissues with examples from the human body. [CO2] [Unit 1]
[HOT][APPLY]
24. Demonstrate your understanding by applying the concepts of systemic and pulmonary circulation to trace the arterial and venous pathways in the human body. [CO2] [Unit 2]
[HOT][APPLY]
25. Analyze the structural organization of the brachial plexus to interpret its clinical and applied anatomical significance in upper limb innervation. [CO3] [Unit 3] [HOT][ANALYZE]

26. Analyze how the bony architecture of the shoulder joint contributes to its range of movements and susceptibility to injury. [CO3] [Unit 3] [HOT][ANALYZE]
27. Analyze the relationship between the bones and muscle attachments around the shoulder joint to understand their role in stability and movement. [CO3] [Unit 3] [HOT][ANALYZE]
28. Apply your anatomical knowledge of the lymphatic system to interpret its clinical importance in disease management and surgical practice. [CO2] [Unit 2] [HOT][APPLY]
29. Analyze the anatomical structure of the hip joint and correlate it with the biomechanics of its movements and common clinical implications. [CO3] [Unit 4] [HOT][ANALYZE]
30. Create an integrated summary comparing the carpal bones and the anterior compartment muscles of the forearm, illustrating how their anatomical relationship supports wrist and hand functions. [CO3] [Unit 4] [HOT][CREATE]

SECTION – C:

(10 × 20 = 200 Marks)

31. Analyze the structure, blood supply, nerve innervation, and muscle attachments of the elbow joint using a detailed labeled diagram, emphasizing how these components contribute to its function and stability. [CO3] [Unit 2] [HOT][ANALYZE]
32. Compare and analyze the different classifications of joints and evaluate how synovial joints are structurally adapted to their functions, supporting your answer with diagrams and examples. [CO3] [Unit 2] [HOT][ANALYZE]
33. Examine in detail the anatomy of the shoulder joint with a labeled diagram, analyzing its movements and applied anatomical significance in functional activities. [CO3] [Unit 3] [HOT][ANALYZE]
34. Analyze the anatomical structure, origin, insertion, nerve supply, and actions of the major muscles of the upper limb, and interpret how they coordinate to produce movement. [CO3] [Unit 3] [HOT][ANALYZE]
35. Analyze and illustrate with neat labeled diagrams the course, branches, and applied anatomy of the radial, ulnar, and median nerves, correlating them with upper limb function. [CO3] [Unit 3] [HOT][ANALYZE]
36. Examine the bony landmarks and articulations of the lower limb bones (femur, tibia, and fibula), and analyze their structural features in relation to weight-bearing and locomotion. [CO3] [Unit 4] [HOT][ANALYZE]
37. Analyze the anatomy and biomechanics of the knee joint, explaining its structure, ligaments, and movements in relation to functional stability and injury mechanisms. [CO3] [Unit 4] [HOT][ANALYZE]

38. Illustrate and analyze with neat labeled diagrams the course, branches, and applied anatomy of the sciatic and femoral nerves, relating them to their motor and sensory distributions. [CO3] [Unit 6] [HOT][ANALYZE]

39. Analyze the anatomical features, blood supply, and muscle attachments of the femur, and evaluate how congenital anomalies affect its function. [CO3] [Unit 4] [HOT][ANALYZE]

40. Evaluate radiographic images to identify the bones and joints of the lower limb for the osteoarthritis of Knee [CO3] [Unit 5] [HOT][EVALUATE]

**SUMMARY SHEET
Course Outcome Wise**

CO	Question	Marks
CO1	1-8,10,21	55
CO2	9,11,12,23,24,28	45
CO3	3-20,22,25,26,29,30,31,32,34,35,36,37,39,40	300
	TOTAL	400

Unit Wise

	Question	Marks
Unit1	1-14,21,23	90
Unit2	15-17,20,22,24,28,31,32	85
Unit3	19,25,26,27,33,34,35	95
Unit4	29,30,36,37,39	80
Unit5	40	20
Unit6	18,38	25
	TOTAL	400

Bloom Taxonomy Wise

	Question	Marks
BTLLOT	1-20,28	110
BTLHOT	21-27,29,30,31-40	290
	TOTAL	400

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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.