



P. RAMI REDDY MEMORIAL COLLEGE OF PHARMACY

(AUTONOMOUS)

Awarding University: JNTU Anantapur, Anantapuramu. Approved by PCI, New Delhi & Govt. of A.P.

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Code: 25BP101T

R25

B.Pharm I Year I Semester (R25) Regular Examinations March 2026

HUMAN ANATOMY AND PHYSIOLOGY – I

(B.Pharmacy)

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
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|--|--------|----|----|
| (a) What are the basic life processes? | C111.1 | I | 2M |
| (b) Give any two differences between mitosis and meiosis. | C111.1 | II | 2M |
| (c) What are epidermal ridges? | C111.2 | I | 2M |
| (d) Define articulation. | C111.2 | I | 2M |
| (e) Significance of Rh factor. | C111.3 | II | 2M |
| (f) What are the primary and secondary organs of lymphatic system? | C111.3 | I | 2M |
| (g) What are photoreceptors? What are their functions? | C111.4 | II | 2M |
| (h) Give a Note on vestibular apparatus. | C111.4 | II | 2M |
| (i) Define cardiac output. | C111.5 | I | 2M |
| (j) Define Myocardial ischemia and arrhythmias. | C111.5 | I | 2M |

PART – B

(Answer all the questions: 05 X 10 = 50 Marks)

- 2 (a) Explain the structure and functions of plasma membrane. C111.1 II 5M
(b) Discuss about cell junctions with suitable examples. C111.1 II 5M
- OR**
- 3 (a) Explain autocrine, paracrine, and contact-dependent signalling with examples. C111.1 II 5M
(b) Describe the structure and functions of epithelial tissue. C111.1 II 5M
- 4 (a) Describe the sliding filament theory of muscle contraction. C111.2 II 5M
(b) Explain the structure of a long bone with a neat diagram. C111.2 II 5M
- OR**
- 5 (a) Classify joints. Explain the composition and functions of bone. C111.2 I 5M
(b) Discuss the salient features of appendicular skeletal system. C111.2 II 5M
- 6 (a) Describe the process of formation of formed elements. C111.3 II 5M
(b) Discuss the intrinsic and extrinsic pathway of blood coagulation. C111.3 III 5M
- OR**
- 7 (a) Write the composition, formation and circulation of lymph. C111.3 II 5M
(b) Describe the structure and functions of spleen. C111.3 II 5M

Contd. in Page 2

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|---|-----|---|--------|----|----|
| 8 | (a) | Differences between Sympathetic and parasympathetic nervous system. | C111.4 | IV | 5M |
| | (b) | Write the origin and functions of cranial nerves. | C111.4 | II | 5M |

OR

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|----|-----|---|--------|-----|----|
| 9 | (a) | Draw a neat labelled diagram of eye. | C111.4 | VI | 5M |
| | (b) | Explain the physiology of vision. | C111.4 | III | 5M |
| 10 | (a) | Write a detailed note on cardiac cycle. | C111.5 | II | 5M |
| | (b) | RAAS pathway. | C111.5 | III | 5M |

OR

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|----|-----|---|--------|----|----|
| 11 | (a) | Explain the conducting system of heart. | C111.5 | II | 5M |
| | (b) | Differences between arteries and veins. | C111.5 | IV | 5M |
