

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**  
**(A DEEMED TO BE UNIVERSITY)**

**Bachelor of Physiotherapy (CBCS), First Year Semester-I**  
**March-2021 Examination.**

TIME - 3 HRS

MAX MARKS:100

**ANATOMY**

**Q.P. CODE: B1010**

*Your answers should be specific to questions asked.*  
*Draw neat labelled diagrams wherever necessary*

**LONG ESSAY (Answer any Two)**

**2 X 10 = 20 Marks**

1. Describe shoulder joint under following headings a) Type & articular surface b) Ligaments c) Movements & muscles involved d) Applied aspects. (2+3+4+1)
2. Describe Suprolateral surface of cerebrum under the following headings a) Lobes b) Sulci & gyri c) Functional areas d) Blood supply. (2+4+2+2)
3. Describe the Stomach under the following headings a) Location & External features b) relations c) blood supply d) applied aspects (3+3+2+2)

**SHORT ESSAY (Answer any Ten)**

**10X 5 = 50 Marks**

4. Locking and unlocking mechanism of knee joint.
5. Wrist joint movements & muscles involved
6. Microscopic feature of Skeletal muscle L.S.
7. Biceps brachi-Attachments, Nerve supply and Action.
8. Gross features of left lung
9. Describe the gross features and blood supply of spinal cord.
10. Popliteal fossa - Boundaries and contents.
11. Describe the quadriceps femoris muscles with action and nerve supply.
12. Describe the flexor retinaculum of hand
13. Describe the superficial palmar arch.
14. Describe the arterial supply of heart.
15. Median nerve course & branches.

**SHORT ANSWER (Answer any Ten)**

**10 X 3 = 30 Marks**

16. Name the muscles supplied by musculocutaneous nerve.
17. List any 3 descending tracts of spinal cord
18. Mention the branches of axillary artery.
19. Classify arches of foot.
20. Microscopic features of elastic cartilage.
21. Name the carpal bones.
22. Coronary sinus
23. Mention the cutaneous nerve distribution over dorsum of hand.
24. Name the Structure at Hilum of right lung.
25. Mention the gross features of large intestine.
26. Name the nuclei of cerebellum
27. Name the hamstring muscles.



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**March 2021 Examination.**

Time: 3.00 Hrs.

[Max. Marks: 100]

**PHYSIOLOGY**

**Q.P Code: B1020**

*Your answers should be specific to the questions asked.  
Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY (Answer any Two)**

**2 X 10 = 20 Marks**

1. Name the muscles involved in respiration. Explain the mechanism of respiration..
2. Define erythropoiesis. List the sites of erythropoiesis. Describe the stages of erythropoiesis with appropriate diagrams..
3. Describe sliding filament theory of skeletal muscle contraction.

**SHORT ESSAY (Answer any Ten)**

**10 X 5 = 50 Marks**

4. Classify hypoxia. Explain any one type of hypoxia.
5. Describe hormonal regulation of menstrual cycle.
6. Define synapse. Classify synapse .
7. Define anemia. Give the morphological classification with and example.
8. Define sarcomere. Draw a neat labeled diagram of sarcomere
9. Give the cause & list the features of Diabetes Mellitus.
10. List the components of countercurrent mechanisms in kidney & mention their function.
11. Diagrammatically represent intrinsic pathway of coagulation.
12. Draw a neat labelled diagram of reflex arc.
13. Mention the differences between isotonic and isometric contractions.
14. Describe the cardiovascular changes during exercise.
15. Define referred pain .List the theories of referred pain.

**SHORT ANSWER (Answer any Ten)**

**10 X 3 = 30 Marks**

16. List the functions of surfactant.
17. List 3 factors regulating gastric emptying time .
18. Name the ascending tracts.
19. Define cardiac output. Give its normal value.
20. Define & give the normal value of MCV.
21. List the factors that shift the oxygen dissociation curve right.
22. Draw a neat labelled diagram of a ventricular action potential.
23. List the functions of cerebellum.
24. Define & give the normal value of VO<sub>2</sub> max..
25. Explain primary active transport with an example.
26. List the taste sensations
27. List the clinical features of Gigantism.

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