

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

**Bachelor of Physiotherapy**

**First Year Semester-I March/April 2025 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 Femoral triangle under the following headings a) Boundaries b) Contents c) Applied aspects (3+4+3)
2. Summarize the Knee joint under following headings a) Type and bones articulating b) Ligaments c) Movements and Muscles producing them d) Applied anatomy (2+4+3+1)
3. Describe stomach under the following headings a) Parts b) Relations c) Blood supply d) Lymphatic drainage e) Applied anatomy. (1+2+3+3+1)

**SHORT ESSAY (Answer any Ten)**

**10 X 5 = 50 Marks**

4. Compute the boundaries & contents of cubital fossa
5. Describe the medial longitudinal arch formation & applied anatomy
6. Illustrate the parts & attachment of Humerus
7. Classify cartilage with suitable examples. add note on hyaline cartilage
8. Describe the typical spinal nerve
9. Define mediastinum, classify & list the content of posterior mediastinum
10. Illustrate Superficial palmar arch-position, formation, and branches
11. Illustrate sciatic nerve course & distribution
12. Construct the microscopic features of longitudinal section of bone
13. Describe the gross features of kidney
14. Describe the formation, termination, tributaries of great saphenous vein
15. Describe gluteus maximus with its origin, insertion, nerve supply and action

**SHORT ANSWER (Answer any Ten)**

**10 X 3 = 30 Marks**

16. List the carpal bones
17. Name the thenar muscles
18. Draw a labeled histology diagram transverse section of bone
19. Mention the attachment of flexor retinaculum of hand
20. List the features of Sesamoid bone
21. Name any 6 tracts of spinal cords
22. Name any 3 endocrine glands of the body
23. List the branches of aorta
24. Name the lobes of brain
25. Mention the cause & effect of foot drop
26. Classify the cartilaginous joint with suitable examples
27. List the muscles involved in abduction of shoulder joint



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**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 2)**

**2 X 10 = 20 Marks**

1. Define erythropoiesis. Describe the stages of erythropoiesis with its regulation(2+5+3))
2. Draw the neat labelled diagram of synapse. Describe the steps of synaptic transmission and list the properties of synapse (2+4+4)
3. List the clotting factors. Describe the intrinsic and extrinsic pathway of coagulation (2+8)

**SHORT ESSAY (Answer any 10)**

**10 X 5 = 50 Marks**

4. List 3 differences between Diabetes Mellitus and Diabetes Insipidus.
5. Draw neat labeled diagram of optic pathway and mention its lesion.
6. Classify and list the functions of plasma proteins
7. Define GFR and give the normal value list the factors influencing the same
8. Describe the etiology, clinical features and management of erythroblastosis foetalis
9. List the functions of thyroid hormones
10. Name the muscles involved in respiration what is the normal respiratory rate
11. Define the isotonic and isometric contraction with examples
12. Draw a neat diagram of a neuromuscular junction. List the events of NMJ. Add a note on myasthenia gravis
13. Female contraceptive methods
14. Formation, circulation, composition and functions of CSF
15. Name the plasma proteins and give its functions

**SHORT ANSWERS (Answer any 10)**

**10 X 3 = 30 Marks**

16. List the hormones of anterior pituitary gland
17. List the functions of surfactant
18. List the three functions of cerebellum
19. What is neuroglia and mention the functions of neuroglia
20. Name the conducting system of the heart
21. Classify the diabetes mellitus and mention the causes
22. Define reflex. List the components of reflex arc
23. Explain why oedema is seen in hypoproteinemia
24. Explain the referred pain?
25. List the functions of placenta.
26. Name the contractile proteins of muscle
27. Draw a neat labelled diagram of lead II ECG and mention the significance of each wave.



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## **Bachelor of Physiotherapy**

**First Year Semester-I March/April 2025 Examination**

**TIME – 2.30 HRS**

**MAX MARKS: 80**

### **ANATOMY**

**QP CODE: B1260**

*Your answers should be specific to questions asked.*

*Draw neat labelled diagrams wherever necessary*

#### **I. Long Essay**

**2x10=20 Marks**

1. Describe the origin, insertion, nerve supply and action of Adductor compartment muscles
2. Describe the articulating bones, type of joint, ligaments, muscles producing various movements, applied aspects of Wrist joint (1+1+3+4+1)

#### **II. Short Essay: Answer the following questions**

**6X5=30 Marks**

3. Describe the attachment, nerve supply and action of Extensor carpi radialis brevis and longus muscle
4. Describe the structure of a Sperm
5. Transverse Section at Sensory decussation of medulla oblongata
6. Mention the recesses of Pleura and its clinical importance
7. Explain about microscopic features of optic nerve and draw a neat labelled diagram of it
8. Mention the blood supply of long bone

#### **III. Short Answers: Answer the following questions**

**10X3=30 Marks**

9. List the tracts passing through internal capsule
10. Mention the branches of popliteal artery
11. Microscopic structure of Cardiac muscle
12. Name the arteries used for recording Pulse
13. List the parts and any 2 functions of Duodenum
14. Intervertebral disc
15. Parts of pancreas
16. Draw the structure of sperm
17. Define locking of knee joint
18. Applied anatomy of larynx

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**TIME – 2.30 HRS**

**MAX MARKS: 80**

**Physiology**  
**QP CODE: B1270**

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

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Define erythropoiesis and describe the steps in the tabular column and explain the regulation in a flow chart (2+5+3)
2. Define Blood pressure and give its normal value. Name the instrument used to measure the same explain the Baroreceptor and chemoreceptor mechanism of BP regulation (3+1+3+3)

**SHORT ESSAY**

**6 X 5 = 30 Marks**

3. List the lung volumes and capacities with normal values.
4. Describe isotonic and isometric contraction with examples
5. List the Anterior pituitary hormones and add note on Dwarfism and Acromegaly
6. Describe the mechanism of gastric juice secretion.
7. List the Muscle proteins and explain Myasthenia gravis
8. List the functions of Parathyroid hormone, add a note on rickets

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

9. List the three hyperglycemic hormone
10. List the functions of kidney
11. List the events that take place during ventricular systole and diastole
12. List three Refractive errors of the eye
13. List the hormones secreted by the adrenal gland
14. Define Landsteiner's Law .
15. List the functions of the liver.
16. List three hormones secreted by the kidney.
17. List the functions of saliva
18. List three sensations which are carried by the Dorsal column

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