

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

**(A DEEMED TO BE UNIVERSITY)**

**Bachelor of Physiotherapy**

**First Year Semester-I March 2024 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 brachial plexus under following headings a. Formation b. Branches c. Applied Anatomy(4+4+2)
2. Describe hip joint under the following headings a. Type of joint & articular surface b. Ligaments c. Movements with muscles involved d. Applied Anatomy(2+2+4+2)
3. Describe spinal cord under following headings a. Location & extent b. External features c. Cut section features d. Blood supply (2+3+3+2)

**SHORT ESSAY (Answer any Ten)**

**10X 5 = 50 Marks**

4. Compute the boundaries& contents of cubital fossa
5. Describe the medial longitudinal arch formation & applied anatomy
6. Illustrate the supero lateral surface of cerebrum with sulci,gyri
7. Classify synovial joint with suitable examples
8. Describe the external features of heart
9. Illustrate the relations of stomach
10. Describe the ligaments of knee joint
11. Illustrate ulnar nerve course & distribution in hand
12. Construct the microscopic features of Hyaline cartilage
13. Describe the parts of long bone.
14. Describe the boundaries & contents of posterior triangle of neck
15. Describe the movements of wrist joint with muscles involved

**SHORT ANSWER (Answer any Ten)**

**10 X 3 = 30 Marks**

16. List the carpal bones
17. Name the parts of pancreas
18. Draw a labeled histology diagram transverse section of bone
19. Mention the classical features of large intestine
20. List the nuclei of cerebellum
21. Name any 6 muscles of extensor compartment of forearm
22. Name any 3 endocrine glands of the body
23. List the branches of femoral artery
24. Name the coverings of brain
25. Mention the cause & effect of carpal tunnel syndrome
26. List the tributaries of great saphenous vein
27. Name the invertors of foot

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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. Explain the oxygen haemoglobin dissociation curve with neat labelled graph. Enumerate the causes for right and left shift (6+4)
2. Draw the neat labelled diagram of Dorsal column tract . name the sensations carried for it (5+5)
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. List the mismatched blood transfusion reactions
8. Describe the etiology, clinical features and management of erythroblastosis foetalis
9. Give the normal serum calcium level. List 3 hormones & 3 target tissues on which they act
10. Describe the chemical regulation of respiration
11. List the differences between 1<sup>st</sup> and 2<sup>nd</sup> heart sounds
12. Define GFR. Mention the composition, factor and regulation of GFR
13. Define Landsteiner's law and give the application of the same
14. Define the active transport. Describe the mechanism of transport of Na-K ATPase pump
15. Name the glial cells and list their functions

**SHORT ANSWERS ( Answer any 10 )**

**10 X 3 = 30 Marks**

16. Draw a neat labeled diagram of nephron
17. State the Landsteiner's law
18. List the properties of cardiac muscle.
19. List the functions of Hcl
20. Define and classify the hypoxia
21. Give the normal partial pressures of oxygen & carbondioxide in arterial & venous blood.
22. List the hormones regulates the ovarian cycle
23. Explain referred pain?
24. List the taste sensations of tongue.
25. List the any three differences between the cretinism and dwarfism.
26. Define All or None law and is it applicable to skeletal muscle
27. Draw a neat labelled diagram of Lead II ECG

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## **Bachelor of Physiotherapy**

### **First Year Semester-I March 2024 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. Essay Questions**

**2x10=20 Marks**

1. Describe the sulci and gyri of medial surface of cerebrum. (5+5)
2. Describe the type of joint, ligaments, various movements & muscles producing various movements and applied aspects of shoulder joint (1+3+4+2)

### **II. Short Essay:**

**6X5=30 Marks**

3. List the boundaries and contents of intermuscular spaces of arm (3+2)
4. Neural crest cells & their fate
5. Transverse Section at olivary nucleus of medulla oblongata
6. Describe the attachment, nerve supply, action and applied aspect of Biceps brachii muscle (2+1+1+1)
7. Explain about microscopic features of bone TS and draw a neat labelled diagram of it
8. Describe the boundaries and contents of femoral triangle (3+2)

### **III. Short Answers:**

**10X3=30 Marks**

9. Define Bronchopulmonary segments
10. Name the parts of Caudate nucleus
11. Mention sensory innervation of palmar aspect of hand
12. List the parts of male reproductive system
13. Mention the applied aspect of deltoid muscle
14. Saphenous opening
15. Sternal angle
16. Popliteus muscle
17. Discuss the Applied anatomy of arches of foot
18. List the extra ocular muscles and its nerve supply

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**First Year Semester-I March 2024 Examination**

**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. List the clotting factors. Describe the extrinsic clotting mechanism using a flow chart.(2+8)
2. Define blood pressure and give its normal value. Describe the regulation of Blood pressure and explain any one (3+7=10)

**SHORT ESSAY**

**6 X 5 = 30 Marks**

3. Classify body fluid compartments. Give the volume of each compartment.
4. Describe the conductive system of the heart with a neat labelled diagram
5. Describe primary active transport with an example.
6. Define Hypoxia and classify with the cause and example in a tabular column.
7. List the cells of the stomach and explain the mechanism of Hcl secretion
8. What is the normal blood sugar level name the hormone which regulate and give three clinical features of diabetes mellitus

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

9. List the sensations carried by the dorsal column medial lemniscus pathway
10. Mention the cause of Cushing syndrome and list any three clinical features
11. List three contractile proteins of the muscle.
12. List three differences between the skeletal and cardiac muscle
13. List the male contraceptive methods
14. List the functions of rods and cones.
15. List anticoagulants and mention any one anticoagulant mechanism of action
16. Define GFR what is the normal value
17. Define and classify the shock
18. Name the hormones regulating the calcium ion concentration