

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

Bachelor of Physiotherapy
First Year Semester-I April 2022 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 Knee joint under the following headings a) Type and bones articulating b) Ligaments c) Movements and Muscles responsible (2+4+4)
2. Describe Facial nerve under the following headings - a) Origin b) Course c) Branches d) Applied aspects (2+3+3+2)
3. Describe Tongue under the following headings a) Gross features b) Muscles c) Nerve supply d) Applied Aspects (2+4+2+2)

SHORT ESSAY (Answer any Ten)

10X 5 = 50 Marks

4. Supports of Uterus
5. Cubital Fossa
6. Microscopic feature of Elastic cartilage
7. Orbicularis Oculi-Attachments, Nerve supply and Action
8. Extensor Retinaculum of Hand
9. Relations of Right Lung
10. Describe the gross features and blood supply of Cerebellum
11. Describe the attachments, nerve supply and actions of Serratus anterior
12. Describe the Rotator cuff of shoulder
13. Compute the cutaneous innervation of hand with clinical relevance.
14. Illustrate Circle of Willis
15. Discuss the development of face and its anomalies.

SHORT ANSWER (Answer any Ten)

10 X 3 = 30 Marks

16. Formation of Superficial Palmar Arch
17. Mention the contents of Femoral Sheath
18. Name the muscles producing Supination and Pronation of hand
19. Sesamoid Bones
20. Derivatives of Neural crest cells
21. Attachments at Linea Aspera
22. Name the layers of epidermis of thick skin
23. Draw a labelled diagram of microscopic structure of muscular artery
24. Name the contents of middle ear
25. Mention the gross differences between jejunum and ileum
26. Mention the arteries supplying the stomach
27. List the layers of anterior abdominal wall

* * *



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

**Bachelor of Physiotherapy
First Year Semester-I April 2022 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. List the hormones secreted by thyroid gland. Describe the functions of thyroid hormones. (2+8=10)
2. Describe the steps involved in haemostasis. Write the mechanism of intrinsic and extrinsic pathway of clotting (4+6)
3. Draw a neat labeled diagram of neuromuscular junction. In flow chart the steps of neuromuscular transmission. (3+7=10)

SHORT ESSAY (Answer any Ten)

10 X 5 = 50 Marks

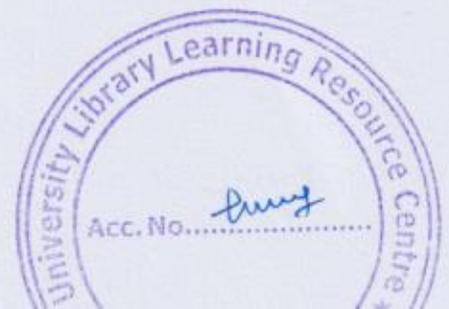
4. Describe micturition reflex.
5. Explain sliding filament theory of skeletal muscle contraction.
6. Classify body fluid compartments. Give the volume of each compartment.
7. Classify aphasia and explain.
8. Explain the phases of endometrial changes of female sexual cycle
9. Describe primary active transport with an example.
10. Define lung volumes and capacities with normal values.
11. Classify hypoxia with examples. Explain the mechanism by which chronic hypoxia results in polycythemia vera.
12. Draw neat labeled diagram of visual pathway and mention the lesions
13. Describe cause, clinical features & treatment of myasthenia gravis.
14. Draw a neat labeled diagram of neuron and classify the types of nerve fibers
15. Define and classify immunity.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

16. Name the respiratory centers.
17. List the three process of urine formation in the kidney.
18. Name contractile proteins of the muscle.
19. Give the normal platelet count.
20. Name 3 temporary methods of contraception in females.
21. List the functions of kidney.
22. List the events that take place during ventricular systole and diastole.
23. List 3 functions of hypothalamus
24. List the hormones secreted by pituitary gland
25. Define GFR. Give the normal value.
26. State the frank starling law of cardiac muscle
27. List the three hormones regulates the plasma calcium levels

* * * * *



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

Bachelor of Physiotherapy

First Year Semester-I April 2022 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 Gross features of the tongue. Describe the intrinsic muscles of the tongue with its nerve supply and action (5+5)
2. Describe the formation, divisions, cords, branches and applied anatomy of Brachial plexus, applied anatomy (2+2+2+2+2)

II. Short Essay:

6X5=30 Marks

3. Describe the boundaries and contents of popliteal fossa (3+2)
4. Mention the functions of Thalamus
5. Classify Epithelia with examples (3+2)
6. Interior of larynx with nerve supply
7. Transverse Section at Pyramidal decussation of Medulla Oblongata
8. Describe the course, branches and applied aspects of Dorsalis pedis artery (2+2+1)

III. Short Answers:

10X3=30 Marks

9. Name the components of Corpus striatum
10. List the differences between Skeletal, Smooth and Cardiac muscle
11. List any 3 functions of Spleen
12. List the layers of meninges
13. List the nerves closely related to humerus
14. Describe the microscopic structure of skeletal muscle
15. Define ossification and name the types of ossification centers
16. Mention the types of Neuron
17. Mention the divisions of Mediastinum
18. List the parts of female reproductive system

* * * *



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

Bachelor of Physiotherapy

First Year Semester-I April 2022 Examination

TIME – 2.30 HRS

MAX MARKS: 80

Physiology

QP CODE: B1270

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

LONG ESSAY

2 X 10 = 20 Marks

1. Draw the neat labelled diagram of the synapse. Describe the steps of synaptic transmission and list the properties of synapse (2+4+4)
2. List the clotting factors. Describe the intrinsic pathway of coagulation (2+8)

SHORT ESSAY

6 X 5 = 30 Marks

3. Draw a neat, labeled diagram of the optic pathway
4. Classify and list the functions of plasma proteins
5. List the functions of thyroid hormones
6. Define the isotonic and isometric contraction with examples
7. Draw a neat diagram of a neuromuscular junction. Add a note on myasthenia graves
8. Describe the Formation, circulation, composition and functions of CSF

SHORT ANSWERS

10 X 3 = 30 Marks

9. Define the muscle tone and mention one cause each for hypertonia and hypotonia
10. List the functions of surfactant
11. List the three functions of the cerebellum
12. Define neuroglia and mention the functions of neuroglia
13. Define reflex and list the components of the reflex arc
14. Define referred pain and give an example of it?
15. List the functions of dietary fibers
16. List three chemical which regulates the respiration
17. Draw a neat labeled diagram of nephron
18. Draw a neat labeled diagram of lead II ECG and mention significance of each wave.

* * * *

