



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

B.Sc. Allied Health Sciences First Year (Semester-I)
March 2024 Examination

Time : 2 Hrs.

[Max. Marks : 50]

SUBJECT : ANATOMY-I

Q.P Code : J1011

*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. Classify bones with examples.
2. Define cartilage. Classify it and explain each with suitable examples.
3. Define Joint. Classify the joints with examples. Describe the Synovial joints with examples

SHORT ESSAY

3 X 5 = 15 Marks

4. Describe the Parts and branches of aorta
5. Define connective tissue. Classify the connective tissue with examples.
6. Illustrate the microscopic structure of cardiac muscle

SHORT ANSWERS

5 X 3 = 15 Marks

7. Mention the layers of large sized artery.
8. List the functions of placenta
9. Give examples for pseudo stratified epithelium
10. Classify the muscles with examples
11. Name the types of cells in the bone

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**B.Sc. Allied Health Sciences First Year Semester-I
March 2024 Examination**

Time: 2 Hrs.

[Max. Marks: 50]

ANATOMY-II

Q.P Code: J1012

*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. Describe Stomach under the following headings with suitable diagrams –
a) External features b) Parts c) Relations d) Clinical significance (4+2+3+1)
2. Describe the Kidney under the following headings –
a) External features b) Anterior relations c) Coverings d) Blood supply (4+3+2+1)
3. Describe Lungs under the following headings with suitable diagrams –
a) Gross features b) Relations c) Root d) Blood supply
e) Clinical significance (3+2+3+1+1)

SHORT ESSAY

3 X 5 = 15 Marks

4. Describe the external features and blood supply of Thyroid gland
5. Draw a neat labelled diagram of the microscopic structure of Testis.
6. Describe the structure of eye ball

SHORT ANSWERS

5 X 3 = 15 Marks

7. Mention the gross differences between small and large intestine
8. Name the parts of Gall bladder
9. Name the cartilages of Larynx
10. Name the extra ocular muscles
11. Name the parts of Corpus callosum



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**B.Sc. Allied Health Sciences First Year Semester-I
March 2024 Examination**

Time: 2 Hrs.

[Max. Marks: 50]

SUBJECT : PHYSIOLOGY-I

Q.P Code: J1021

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. With neat labeled diagram explain the mechanism of respiration. Define dead space and give the normal value.(2+6+2)
2. Define erythropoiesis. Describe the stages of erythropoiesis with its regulation (2+5+3)
3. Define cardiac cycle and list the phases of cardiac cycle. Describe various events of cardiac cycle.

SHORT ESSAY

3 X 5 = 15 Marks

4. Define GFR with normal value. List any two factors regulating GFR
5. Classify body fluid compartments. Give the normal value of each compartment
6. Name the salivary glands and list the functions of saliva.

SHORT ANSWERS

5 X 3 = 15 Marks

7. Draw a neat labeled diagram of lead II ECG
8. Give the differences between 1st and 2nd heart sound
9. State the normal values of – RBCs, WBCs, Platelets
10. List the function of plasma proteins
11. Define cyanosis and Give the cause

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**B.Sc. Allied Health Sciences First Year Semester-I
March 2024 Examination**

Time : 2 Hrs.

[Max. Marks : 50]

SUBJECT : PHYSIOLOGY-II

Q.P Code : J1022

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. Describe the neuro-muscular junction with a neat labelled diagram Explain the transmission of impulse in the form of flow chart (7+3)
2. Define menstrual cycle explain the various changes occurring in the uterus, and ovaries (2+4+4)
3. What is the calcium ion concentration in blood .Name the hormones maintaining calcium homeostasis and explain it.(2+3+5)

SHORT ESSAY

3 X 5 = 15 Marks

4. Define spermatogenesis and list the factors influencing it
5. List the glial cells and give their functions
6. List the five functions of cerebellum.

SHORT ANSWERS

5 X 3 = 15 Marks

7. Define deafness and list the types of deafness
8. List the extra-pyramidal tracts
9. Draw a neat labeled diagram of synapse
10. Explain saltatory conduction in nerve fiber. List 6 features of cerebellar dysfunction
11. List the anterior pituitary hormones

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**B.Sc. Allied Health Sciences First Year Semester I
March 2024 Examination**

Time- 2.30 Hrs

[Max Marks: 80]

SUBJECT : ANATOMY-I

QP Code: K1011

*Your answer should be specific to the question asked
Draw neat labelled diagrams wherever necessary*

Long Essay:

2x10=20M

1. Define Cartilage. Classify the Cartilages with examples. (1+9)
2. Describe about the Pericardium and Blood supply of Heart (5+5)

Short Essays: -

6X5=30M

3. Describe the layers of Pericardium and its importance
4. Illustrate the microscopic structure of Cardiac muscle
5. Describe the Axillary artery - Origin, Course, branches, and clinical importance
6. Define Neuron. Classify the neurons with examples
7. Illustrate the microscopic structure of Thymus gland
8. Define Bone. Classify with examples

Short notes: -

10X3=30M

9. Name the dural venous sinuses
10. Name the Carpal bones
11. Mention the connective tissue cells and fibers
12. Name the para nasal air sinuses
13. Name the branches of Arch of Aorta
14. Illustrate the microscopic structure of Hyaline cartilage
15. Define anatomical position
16. Sesamoid bone – Features and Functions
17. Classify the glands according to mode of secretion
18. Mention any parts of long bone

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**B.Sc. Allied Health Sciences First Year Semester I
March 2024 Examination**

Time- 2.30 Hrs

[Max Marks: 80]

ANATOMY-II

QP Code: K1012

*Your answer should be specific to the question asked
Draw neat labelled diagrams wherever necessary*

Long Essay: -

2x10=20 M

1. Describe Thyroid gland under the following headings with suitable diagrams - a) Gross features b) Coverings c) Relations d) Clinical significance (2+2+4+2)
2. Describe the Kidney - under the following headings –
a) External features b) Anterior Relations c) Coverings d) Blood supply. (2+4+3+1)

Short Essays: -

6X5=30M

3. Describe the Posterior Relations of Stomach
4. Discuss briefly about tongue and its nerve supply
5. Describe the relations, blood supply and applied anatomy of Palatine tonsil
6. Describe the Medulla oblongata – Features and functions.
7. Describe the formation, circulation, absorption and functions of CSF
8. Describe the Trigone of Urinary bladder.

Short notes: -

10X3=30M

9. Name the gastric cells
10. Summarize recto uterine pouch
11. Name the ligaments of spleen
12. Name the parts of Pharynx
13. Name the coverings of Testis
14. Illustrate the Microscopic Structure of kidney
15. Name the parts of urethra
16. Define Fertilization
17. Mention the structures present in hilum of lung
18. Mention the differences between small and large intestine



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Time: 2.30 Hrs

[Max. Marks: 80]

SUBJECT : PHYSIOLOGY-I

Q.P Code: K1021

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Name the salivary glands its type of secretion and the ducts with tabular column , write the composition of saliva and list four functions of it (5+3+2)
2. Define Erythropoiesis list and explain the changes occurring in a tabular column and mention the final changes taking place in the matured RBC . Explain regulation on flow chart list the factors influencing the same.(1+5+2+2)

SHORT ESSAY

6 X 5 = 30 Marks

3. Name the plasma proteins and give their functions add note on A:G ratio
4. List any five components of the cell and give their function in tabular column.
5. Draw a neat labelled diagram of the nephron and give their function in tabular column.
6. Define Cardiac out put give the normal value list the factors influencing the same
7. List the different cells of stomach and the flow chart for the process of deglutition.
8. Define Hypoxia classify and give the causes in the form of tabular column with example

SHORT ANSWERS

10 X 3 = 30 Marks

9. Define Anemia, Oliguria and Polycythemia
10. Draw a neat, labelled diagram of ECG
11. List the functions of cell membrane
12. Name the different blood groups and add note on universal donor and recipient
13. Explain the glucose absorption mechanism in the kidney
14. List any three non-respiratory function of respiratory system
15. Name the bile salts and bile pigments .
16. Define the Landsteiner's law
17. List the different body fluids.
18. List The differences between cardiac and skeletal muscle

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B.Sc. Allied Health Sciences First Year Semester-I

March 2024 Examination.

Time: 2.30 Hrs

[Max. Marks: 80]

SUBJECT : PHYSIOLOGY-II

Q.P Code: K1022

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe neuro-muscular junction with neat labelled diagram. List the features of myasthenia gravis (7+3)
2. Define menstrual cycle explain the various changes occurring in the uterus, and ovaries (2+4+4)

SHORT ESSAY

6 X 5 = 30 Marks

3. List the components of the middle ear and explain their function
4. List the functions of Hypothalamus
5. List the sensations carried by the dorsal column tract
6. Describe the physiological changes occurring during pregnancy
7. Describe the cause and features of the Diabetes mellitus
8. Define Rigor mortis and its features

SHORT ANSWERS

10 X 3 = 30 Marks

9. List three functions of cerebellum
10. List the functions of the intraocular fluid
11. Define a motor unit
12. What is orthodromic and Antidromic conduction
13. Name the different types of taste sensations
14. Define menarche and menopause
15. List the differences between positive and negative feedback mechanism
16. List the features of diabetes insipidus
17. Name the hormones secreted by the pancreas
18. Draw a neat labeled diagram of the reflex arc

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