Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination – 28-Dec-2020

Time: Three Hours Max. Marks: 80 Marks

Basic Anatomy (Including Histology)

(RS3 – Medical Laboratory Technology, Medical Imaging Technology and Radiotherapy Technology RS2 – Operation Theatre Technology, Cardiac Care Technology, Perfusion Technology, Renal Dialysis Technology, Respiratory Care Technology, Anaesthesia Technology and Neurosciences Technology)

Q.P. CODE: 3151

(QP contains two pages)

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

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

1. Cavernous sinus
2. Lateral wall of Nose
3. Histology of skeletal muscle
4. Lacrimal apparatus
5. Fertilization
6. Cerebrospinal fluid
7. Thoracic duct
8. Thyroid gland – coverings, relations, blood supply and applied aspects
9. Diaphragm
10. Pleura

SHORT ANSWERS (Answer any Ten) 10 x 3 = 30 Marks

11. Meninges
12. Draw the structure of a mature spermatozoon.
13. uterus
14. Transitional epithelium
15. Coeliac trunk
16. Parts of the extrabiliary apparatus
17. Appendix
18. Blood supply of Brain
19. Name the extra ocular muscles
20. Parts of long bone
21. Branches of external carotid artery
22. Fibrous joint

Rajiv Gandhi University of Health Sciences, Karnataka

TO THE POINT ANSWERS (Answer any Five) 5 x 2 = 10 Marks

23. Name any four cranial nerves.
24. Name the papillae on the dorsum of the tongue.
25. Name the ear ossicles.
26. Name the hormones of anterior pituitary.
27. Parts of brain stem
28. Name any two pneumatic bones.
29. Mention the parts of fallopian tube.

Rajiv Gandhi University of Health Sciences, Karnataka

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination – 30-Dec-2020

Time: Three Hours Max. Marks: 80 Marks

PHYSIOLOGY

(RS3 – Medical Laboratory Technology, Medical Imaging Technology and Radiotherapy Technology RS2 – Operation Theatre Technology, Cardiac Care Technology, Perfusion Technology, Renal Dialysis Technology, Respiratory Care Technology, Anaesthesia Technology and Neurosciences Technology)

Q.P. CODE: 3152

(QP contains two pages)

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

1. Describe the nervous regulation of respiration.
2. Explain the extrinsic mechanism of clotting.
3. Mode of transmission along neuromuscular junction
4. Actions of cortisol hormones
5. Define shock, types of shock and explain each.
6. Write a note on ascending pathways.
7. Tubular reabsorption of glucose
8. Describe Defaecation reflex.
9. Enumerate the properties of Cardiac muscle. Explain Refractory period in detail.
10. Endometrial changes during menstrual cycle

SHORT ANSWERS (Answer any Ten) 10 x 3 = 30 Marks

11. Iron deficiency anaemia
12. Factors affecting glomerular filtration rate
13. Stages of Oogenesis
14. Hypoxic hypoxia
15. Functions of platelets
16. Trace the taste pathway
17. List the errors of refraction and explain one of them.
18. Functions of skin
19. Factors affecting Erythropoiesis
20. Draw the Oxygen Dissociation Curve.
21. Sarcomere
22. Contents of middle ear

TO THE POINT ANSWERS (Answer any Five) 5 x 2 = 10 Marks

23. Draw a neat diagram of a nephron and label it.
24. List two functions of CSF.
25. What are Neuroglia? Give examples.
26. Name the hormones of posterior pituitary gland. Give any one function of each.
27. What is immunity? What are the types?
28. List the symptoms of diabetes mellitus.
29. Define vital capacity.

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination - 28-Dec-2020

Time: Three Hours Max. Marks: 100

Marks

Basic Anatomy including Histology

(RS 4 – B.Sc Medical Laboratory Technology, Medical Imaging Technology & Radiotherapy Technology
RS3 – B.Sc Cardiac Care Technology, Perfusion Technology, Renal Dialysis Technology, Respiratory Care Technology, Neuro Sciences Technology, Emergency and Trauma Care Technology,
Anesthesia Technology and Operation Theatre Technology)

Q.P. CODE: 3261

(QP contains two pages)

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

LONG ESSAYS (Second Question Choice) 2 x 10 = 20 Marks

1. Classify the synovial joints. Explain in detail the knee joint.
2. Name the parts of male reproductive system. Describe in detail the gross features of testis
   OR
   Describe the sulci and gyri on supero-lateral surface of cerebrum

SHORT ESSAYS (Question No 5 & 10 choice) 10 x 5 = 50 Marks

3. Cubital fossa
4. Histology of trachea
5. Uterine tube
   OR
   Pituitary gland
6. Liver-ligaments and blood supply
7. Larynx-cartilages and muscles
8. Structure of Nephron
9. mandible
10. Peritoneum
    OR
    External jugular vein
11. Broncho pulmonary segments
12. Microstructure of Appendix

SHORT ANSWER (Question No 15 & 20 choice) 10 x 3 = 30 Marks

13. Name the extrinsic muscles of tongue
14. Name the extra ocular muscles
15. Branches of abdominal aorta
    OR
    Sesamoid bone
16. Name the ventricles of brain
17. Draw the histology of lymph node
18. Name the coverings of kidney
19. Thoracic duct – commencement and termination
20. Name the muscles of anterior compartment of leg
    OR
    Cauda equina
21. Draw the histology of elastic cartilage
22. Name the paranasal air sinuses

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination - 30-Dec-2020

Time: Three Hours Max. Marks: 100 Marks

PHYSIOLOGY

(RS 4 – B.Sc Medical Laboratory Technology, Medical Imaging Technology & Radiotherapy Technology
RS3 – B.Sc Cardiac Care Technology, Perfusion Technology, Renal Dialysis Technology, Respiratory Care Technology, Neuro Sciences Technology, Emergency and Trauma Care Technology,
Anesthesia Technology and Operation Theatre Technology)

Q.P. CODE: 3262

(QP contains two pages)

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

LONG ESSAYS (Second Question Choice) 2 x 10 = 20 Marks

1. Describe erythropoiesis under the following headings a) Definition b) Stages c) Regulation and d) Factors affecting.
2. Define Synapse. Enumerate and list the properties of synapse and describe any four of them.
   OR
   Define cardiac cycle. Describe the mechanical events that take place in the heart during each cardiac cycle.

SHORT ESSAYS (Question No 5 & 10 choice) 10 x 5 = 50 Marks

3. Define anemia, give its morphological classification with one example for each type.
4. Describe the intrinsic mechanism of blood coagulation.
5. Describe the actions of hormone Insulin.
   OR
   Describe the actions of antidiuretic hormone.
6. Describe the changes taking place in the Endometrium during a menstrual cycle.
7. Define micturition. Describe the micturition reflex.
8. Describe any five functions of liver.
9. Describe the mechanism of HCl secretion in the stomach.
10. Describe any five functions of hypothalamus.
    OR
    Describe synaptic transmission.
11. Define oxygen – dissociation curve. List the factors affecting the curve.
12. With a neat labelled diagram describe any two errors of refraction and their correction.

SHORT ANSWER (Question No 15 & 20 choice) 10 x 3 = 30 Marks

13. Define a) Cardiac output b) Stroke volume and c) Ejection fraction.
14. Define Mean Corpuscular Volume. Give its normal value.
15. Define a Sarcomere with the help of a diagram.
    OR
    Draw a neat labelled diagram of a neuron.
16. What is gastrin? Give any two functions.
17. List any three differences between Rods and Cones.
18. Draw and label a normal ECG.
19. Define jaundice. List the types of jaundice.
20. List any three methods of contraception in males.
    OR
    What is an intrauterine contraceptive device? What are its types? Give its significance.
21. Define deafness and give its types.
22. List two differences between B and T cell immunity.

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