

Rajiv Gandhi University of Health Sciences, Karnataka
I Year B.Sc. Nursing Degree Examination – 20-May-2022

Time: Three Hours

Max. Marks: 38 Marks

PHYSIOLOGY
(RS2, RS3, RS4 & RS5)
Q.P. Code: 1754

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

(Note : Both QP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. Describe the stages of Erythropoiesis. Name the factors influencing it.

SHORT ESSAYS

4 x 5 = 20 Marks

2. Enumerate the cranial nerve and list down functions of any five Cranial Nerves.
3. Explain the mechanism of oxygen transport in blood.
4. Explain the composition and functions of Gastric Juice.
5. Explain the mechanism of formation of Urine.

SHORT ANSWERS

4 x 2 = 8 Marks

6. What is Lordosis?
7. What is Presbycusis?
8. What is Cretinism?
9. What are the functions of Ovary?

Rajiv Gandhi University of Health Sciences, Karnataka
I Year B.Sc. Nursing Degree Examination – 04-Feb-2022

Time: 3 Hours

Max. Marks: 38 Marks

PHYSIOLOGY
(RS2, RS3, RS4 & RS5)
Q.P. Code: 1754

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer All Questions

(Note : Both QP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. Define Cardiac Output. Describe the regulation of Cardiac Output. Draw and explain a normal ECG curve.

SHORT ESSAYS

4 x 5 = 20 Marks

2. Describe the Neuron with its functions.
3. Explain the mechanism of oxygen transport in blood.
4. Describe the composition of bile and its functions
5. Explain the regulation of temperature in human body.

SHORT ANSWERS

4 x 2 = 8 Marks

6. State Sliding Filament Theory.
7. What is conjunctivitis?
8. List any four functions of Thyroid Hormone.
9. What is Gynaecomastia?

Rajiv Gandhi University of Health Sciences, Karnataka
I Year B.Sc. Nursing Degree Examination – 28-Jul-2021

Time: Three Hours

Max. Marks: 38 Marks

PHYSIOLOGY
(RS3, RS4 & RS5)

Q.P. Code: 1754

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer All Questions

(Note : Both OP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. Classify the blood group. Explain the complication of ABO incompatibility and Rh incompatibility.
(3+7)

SHORT ESSAYS

4 x 5 = 20 Marks

2. Describe the neuromuscular junction with a neat labelled diagram.
3. Enumerate the digestion of food in the stomach.
4. Enumerate the functions of sense organs.
5. Describe the function of Kidney.

SHORT ANSWERS

4 x 2 = 8 Marks

6. Define Tetany.
7. What is Myopia?
8. Define Acromegaly.
9. Define infertility.

Rajiv Gandhi University of Health Sciences, Karnataka
I Year B.Sc. Nursing Degree Examination – 10-Feb-2021

Time: Three Hours

Max. Marks: 38 Marks

PHYSIOLOGY
(RS3, RS4 & RS5)
Q.P. Code: 1754

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer All Questions

(Note : Both QP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. Describe the functions of the heart. Add a note on cardiac cycle.

SHORT ESSAYS

4 x 5 = 20 Marks

2. Describe the composition and functions of Cerebro Spinal Fluid.
3. Explain the physiology of Respiration.
4. Explain the functions of large intestine.
5. Describe the mechanisms that control Glomerular Filtration Rate.

SHORT ANSWERS

4 x 2 = 8 Marks

6. Define Isotonic Muscle Contraction.
7. Define Presbycusis.
8. Define Acromegaly.
9. List down the functions of Luteinizing Hormone

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing Degree Examination – 04-Sep-2020

Time: Three Hours

Max. Marks: 38 Marks

PHYSIOLOGY (RS2, RS3 & RS4)

Q.P. Code: 1754

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer All Questions

(Note : Both QP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. State Landsteiner's Law. Describe the Rh blood group system. Explain the consequences of Rh incompatibility.

SHORT ESSAYS

4 x 5 = 20 Marks

2. Explain the transmission of nerve impulses through a synapse.
3. Describe lung volumes and capacities.
4. Explain the functions of stomach.
5. Describe the micturition reflex.

SHORT ANSWERS

4 x 2 = 8 Marks

6. Define Osteoblast.
7. Name any two refractive errors and their corrective measures.
8. List any four functions of insulin.
9. List any four female family planning methods.

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing Degree Examination – APRIL-2019

Time: 3 Hours

Max. Marks: 38 Marks

Physiology

Q.P. Code : 1754

Your answers should be specific to the questions asked, Draw neat labeled diagrams wherever necessary
(Note : Both QP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Describe in detail about clotting mechanism.
2. Describe the mechanism of respiration.

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Describe factors regulating cardiac output.
4. Enumerate functions of liver.
5. Define glomerular filtration rate and describe factors regulating it.
6. Describe the structure and functions of neutrophils.
7. What is referred pain? Explain the theories for the referred pain.

SHORT ANSWERS

4 x 2 = 8 Marks

8. Name the Antibodies.
9. Draw neat, labeled diagram of taste bud.
10. How much is total body water? How is it distributed in the body?
11. Write the actions of testosterone.

Rajiv Gandhi University of Health Sciences, Karnataka
I Year B.Sc. Nursing Degree Examination – OCT-2019

Time: Three Hours

Max. Marks: 38 Marks

PHYSIOLOGY
(RS2, RS3 & RS4)
Q.P. Code: 1754

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer All Questions.

(Note: Both Q.P. Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. Enumerate the various phases of Cardiac cycle. Add a note on Shock.

(8+2)

SHORT ESSAYS

4 x 5 = 20 Marks

2. Describe Neuroglia and its functions.
3. Differentiate between Internal and External respiration.
4. Explain the functions of Liver.
5. Describe the mechanism of reabsorption and secretion at Renal Tubules.

SHORT ANSWERS

4 x 2 = 8 Marks

6. Define Osteoporosis.
7. List down the functions of middle ear.
8. Define Diabetes Insipidus.
9. What are the functions of uterus?

1754_9999_9_S262.doc

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing Degree Examination – OCT-2018

Time: 3 Hours

Max. Marks: 38 Marks

Physiology Q.P. Code : 1754

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both OP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Describe the composition and functions of gastric juice.
2. Describe the mechanism of respiration.

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Functions of hypothalamus
4. Describe the functions of thyroid hormone.
5. What is GFR? Describe its regulation.
6. Define cardiac output. Explain the factors regulating cardiac output.
7. Describe the events occurring at Neuro muscular junction.

SHORT ANSWERS

4 x 2 = 8 Marks

8. Name two anti coagulants. What is their mechanism of action?
9. What is Hypermetropia?
10. What is the normal pulse rate? Mention two causes for increase in pulse rate.
11. Draw the normal ECG. Label its parts.

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing Degree Examination – APRIL-2018

Time: 3 Hours

Max. Marks: 38 Marks

Physiology Q.P. Code : 1754

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both OP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 × 10 = 10 Marks

1. Classify leucocytes. Describe their morphology. Add a note on its function.
2. Name the anterior pituitary hormones. Enumerate the functions of growth hormone and add a note on hyper-secretion of growth hormone.

SHORT ESSAYS (Answer any Four)

4 × 5 = 20 Marks

3. What is normal heart rate? What are the factors affecting heart rate?
4. Chemical regulation of respiration
5. Composition and functions of CSF
6. Describe the phases of gastric secretion.
7. Describe the mechanism of urine formation.

SHORT ANSWERS

4 × 2 = 8 Marks

8. Tests for ovulation
9. Define bleeding time and clotting time.
10. Referred pain
11. Mention the lung volumes and give its normal value.

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing Degree Examination - SEP-2017

Time: 3 Hours

Max. Marks: 38 Marks

Physiology

Q.P. Code : 1754

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.
(Note : Both QP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Describe the mechanism of respiration.
2. Describe the functions of thyroid hormone. Name the diseases of hypo and hyper secretion of thyroid hormone.

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Describe the functions of testosterone.
4. Name the different types of blood groups. Explain Landsteiner's law.
5. Name the conducting tissues of Heart. Explain the conduction of electrical impulse in the heart.
6. Describe the composition and functions of cerebrospinal fluid.
7. Explain the different stages of menstrual cycle.

SHORT ANSWERS

4 x 2 = 8 Marks

8. Draw a neat diagram of neuron and label it.
9. Define cardiac cycle.
10. Explain saltatory conduction in Neurons.
11. Name the hormones of posterior pituitary gland.

Rajiv Gandhi University of Health Sciences, Karnataka

1 Year B.Sc. Nursing Degree Examination – APRIL 2017

Time: 3 Hours

Max. Marks: 38 Marks

Physiology

Q.P. Code : 1754

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.
(Note : Both QP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Describe the ABO blood group system. Add a note on blood transfusion.
2. Describe the transport of oxygen in the blood. Add a note on Hypoxia.

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Cerebro spinal fluid
4. Describe actions of thyroid hormone.
5. Functions of liver
6. Spermatogenesis
7. Actions of estrogen

SHORT ANSWERS

4 x 2 = 8 Marks

8. Functions of Hypothalamus
9. Mention functions of middle ear.
10. Define vital capacity. Give its normal value.
11. Draw a neat diagram of reflex arc.

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing Degree Examination – May 2016

Time: 3 Hours

Max. Marks: 38 Marks

Physiology

Q.P. Code : 1754

Answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.
(Note : Both OP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

Describe the mechanics of respiration.

Describe with the help of a diagram pathway for pain sensation. What is referred pain?

OR SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

Functions of hypothalamus

Enumerate the actions of thyroid hormone.

Functions of placenta

Conducting system of heart

Neuromuscular junction

SHORT ANSWERS

4 x 2 = 8 Marks

Functions of Gall bladder

Functions of WBC's

Draw a neat diagram of reflex arc.

Mention four functions of kidney.

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing Degree Examination - OCTOBER 2015

Time: 3 Hours

Max. Marks: 38 Marks

Physiology

Q.P. Code : 1754

Answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.
(Note : Both QP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1. Describe Cardiac cycle.
2. Describe erythropoiesis in detail.

1 x 10 = 10 Marks

SHORT ESSAYS (Answer any Four)

3. Reflex arc
4. Describe the pathway for pain.
5. Describe micturition reflex.
6. GFR
7. Functions of estrogen

4 x 5 = 20 Marks

SHORT ANSWERS

1. Functions of insulin
2. Four functions of saliva
3. Refractory period
4. Surfactant

4 x 2 = 8 Marks

Rajiv Gandhi University of Health Sciences, Karnataka
1 Year B.Sc. Nursing Degree Examination - APRIL 2015

Time: 3 Hours

Max. Marks: 30 Marks

Physiology

Q.P. Code : 1754

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.
(Note : Both QP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Describe in detail about functions of growth hormone.
2. Describe the pathway of coagulation. Add a note on anti coagulants.

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. Middle ear
4. Testosterone
5. Functions of saliva
6. Neural regulation of respiration
7. Composition of CSF

SHORT ANSWERS

4 x 2 = 8 Marks

8. Myasthenia gravis
9. Rh incompatibility
10. Meiosis
11. Oogenesis

canestara.com

Rajiv Gandhi University of Health Sciences, Karnataka
I Year B.Sc. Nursing Degree Examination – September 2014

Time: 3 Hours

Max. Marks: 38 Marks

Physiology

Q.P. Code : 1754

Our answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.
(Note : Both OP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1. Name the hormones of anterior pituitary gland. Describe the functions of growth hormone. **1 x 10 = 10 Marks**
2. Describe the components of gastric juice. What are the functions of stomach?

SHORT ESSAYS (Answer any Four)

1. What are the composition and functions of blood? **4 x 5 = 20 Marks**
2. Name the movements of small intestine. What are the functions of small intestine?
3. Define GFR. Describe the factors affecting GFR.
4. What are the types of Neuroglia? Mention its functions.
5. ECG waves

SHORT ANSWERS

1. Name the types of Lymphocytes. **4 x 2 = 8 Marks**
2. Name two muscles of inspiration.
3. Synapse
4. Define blood pressure.

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing Degree Examination – April 2014

Time: 3 Hours

Max. Marks: 38 Marks

Physiology

Q.P. Code : 1754

Our answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.
(Note : Both QP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Describe the transmission of impulse across neuromuscular junction. Add a note on myasthenia gravis.
2. Discuss in detail the calcium regulation of the body.

SHORT ESSAYS (Answer any Four)

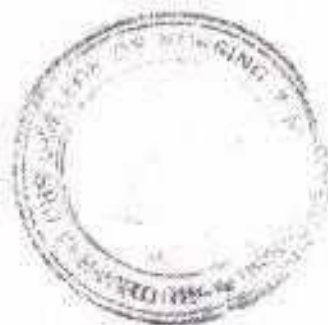
4 x 5 = 20 Marks

3. Referred pain
4. Pregnancy tests
5. Jaundice
6. Composition of gastric juice
7. Classify nerve fibers.

SHORT ANSWERS

4 x 2 = 8 Marks

8. Radial pulse
9. Goitre
10. Safe period
11. Erythroblastosis foetalis



Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing Degree Examination – Sep 2013

Time: 3 Hours

Max. Marks: 38 Marks

Physiology

Q.P. Code : 1754

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.
(Note : Both QP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Describe the mechanism of blood clotting
2. Define arterial blood pressure. What are the factors determining blood pressure. How is it regulated

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

3. What is the composition and function of saliva
4. Explain the actions of growth hormone
5. Trace the pathway for pain
6. Describe the mechanism of oxygen transport in blood
7. What is immunity? Explain its types

SHORT ANSWERS

4 x 2 = 8 Marks

8. Mention four functions of skin
9. What is Myopia
10. Draw a neat diagram of neuron & label its parts
11. Enumerate two functions of estrogen

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing Degree Examination – Mar 2013

Time: 3 Hours

Max. Marks: 38 Marks

Physiology

Q.P. Code : 1754

Answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.
(Note : Both QP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

Name the respiratory centres and describe regulation of respiration.

Draw a neat, labeled diagram of neuro-muscular junction and describe the events occurring at it.

SHORT ESSAYS (Answer any Four)

4 x 5 = 20 Marks

Heart sounds

Name the posterior pituitary hormones and describe their actions.

Describe functions of hypothalamus.

Describe stages of erythropoiesis.

Define receptor. Classify them.

SHORT ANSWERS

4 x 2 = 8 Marks

Name the plasma proteins and mention function of any one.

Mention any four secondary sexual characters of a male.

Functions of platelets

Name any two gastro intestinal hormone and mention their function.
