# Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - 19-Nov-2020

Time: Three Hours | Max. Marks: 100 Marks

## ANATOMY – PAPER - I (RS3)

## Q.P. CODE: 1075

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

LONG ESSAYS 2 x 10 = 20 Marks

1. Describe the gross anatomy of thyroid gland and add a note on its applied anatomy.
2. Describe the external features of heart and write in detail about interior of the right atrium of heart.

SHORT ESSAYS 10 x 5 = 50 Marks

3. Histology of compact bone.
4. Nasal septum.
5. Elbow joint.
6. Posterior mediastinum.
7. Internal capsule of brain.
8. Lateral Pterygoid Muscle and its relations.
9. Palmar aponeurosis.
10. Superior orbital fissure.
11. Axillary nerve.
12. Facial artery in the face.

SHORT ANSWERS 10 x 3 = 30 Marks

13. Sibson's fascia.
14. Tentorium cerebelli.
15. Cartilaginous joints.
16. Cardiac plexuses.
17. Action and nerve supply of sternocleidomastoid muscle.
18. Lymphatic drainage of Tongue.
19. Hensen's node.
20. Microscopic structure of cardiac Muscle.
21. Carpal tunnel syndrome.
22. Recesses of third ventricle.

# Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - 21-Nov-2020

Time: Three Hours | Max. Marks: 100 Marks

## ANATOMY – PAPER - II (RS3)
## Q.P. CODE: 1076

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

LONG ESSAYS — 2 x 10 = 20 Marks

1. Describe the gross features, development, supports and applied Anatomy of Uterus.
2. Describe the Femoral Triangle in detail and add a note on its applied anatomy.

SHORT ESSAYS — 10 x 5 = 50 Marks

3. Down's syndrome
4. Pelvic Diaphragm
5. Describe the Histology of Kidney.
6. Para-mesonephric Duct and its derivatives
7. Blood supply of Stomach
8. Barr body
9. Hamstrings
10. Prostatic Urethra
11. Dorsalis Pedis Artery
12. Great Saphenous Vein

SHORT ANSWERS — 10 x 3 = 30 Marks

13. Cells of Islets of Langerhans
14. Boundaries of Bare area of Liver.
15. Cruciate Anastomosis
16. Contents of Umbilical Cord
17. Vas deferens – microscopy (only labeled diagram)
18. Lesser omentum
19. Gubernaculum of Testis
20. Relations of spleen
21. Draw and label microscopic structure of suprarenal gland
22. Nerve supply of urinary bladder

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# Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - 24-Nov-2020

Time: Three Hours | Max. Marks: 100 Marks

## PHYSIOLOGY – I (RS3)

Q.P. CODE: 1077

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

### LONG ESSAYS — 2 x 10 = 20 Marks

1. Describe the mechanism of concentrating the urine.
2. Define Cardiac Output. Explain factors regulating Cardiac Output.

### SHORT ESSAYS — 10 x 5 = 50 Marks

3. Sinoaortic reflex
4. Tubuloglomerular feedback
5. Hemolytic anemia
6. Respiratory distress syndrome
7. Rh incompatibility
8. Postprandial alkaline tide
9. Humoral immunity
10. Heart sounds
11. Hering Bruer reflex
12. Mismatched blood transfusion

### SHORT ANSWERS — 10 x 3 = 30 Marks

13. Haldane effect
14. Receptive relaxation
15. Vagal tone
16. Loop diuretics
17. What is Triple response?
18. Dyspneic index
19. Paralytic Ileus
20. Dialysis
21. Ejection fraction
22. Secondary active transport

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# Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - 24-Nov-2020
MBBS Phase – I Degree Examination - 26-Nov-2020

Time: Three Hours | Max. Marks: 100 Marks

## PHYSIOLOGY – II (RS3)

Q.P. CODE: 1078

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

### LONG ESSAYS — 2 x 10 = 20 Marks

1. Describe the molecular mechanism of skeletal muscle contraction.
2. Describe the physiological actions of parathyroid hormone. List the effects of parathyroidectomy.

### SHORT ESSAYS — 10 x 5 = 50 Marks

3. Diabetes insipidus
4. Steps of thyroid hormone synthesis
5. Uterine changes during menstrual cycle
6. Blood-testis barrier
7. Colour blindness
8. Functions of thalamus
9. Draw and label Corticospinal tracts.
10. Control mechanisms of slow wave sleep
11. Refractive errors of eye
12. Changes following nerve injury

### SHORT ANSWERS — 10 x 3 = 30 Marks

13. Amenorrhea – galactorrhea syndrome
14. Enumerate the features of lower motor neuron paralysis.
15. What is dissociated anaesthesia? Name one condition where it is seen.
16. What is Motor aphasia? Where is the site of lesion?
17. What is Nystagmus? Name one condition where it is seen.
18. Draw and label Taste pathways.
19. What is tympanic reflex?
20. Draw and label an Olfactory receptor cell.
21. Draw a Strength duration curve.
22. What is Malignant hyperthermia?

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# Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - 28-Nov-2020

Time: Three Hours | Max. Marks: 50 Marks

## BIOCHEMISTRY – PAPER I (RS3)

## QP Code: 1079

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

(Note: Both QP Codes 1079 and 1080 are to be, answered within total duration of three hours)

(Use separate Answer books for QP Code 1079 & 1080)

LONG ESSAYS 1 x 10 = 10 Marks

1. Name the aromatic amino acids. Discuss how phenylalanine is catabolised in the body. Add a note on alkaptonuria.

SHORT ESSAYS 5 x 5 = 25 Marks

2. Metabolism of high-density lipoprotein and its significance
3. Competitive and non-competitive enzyme inhibition with examples
4. How is galactose metabolized? Add a note on galactosemia.
5. Reactions of citric acid cycle (TCA cycle) and its energetics
6. Formation and utilization of Ketone bodies

SHORT ANSWERS 5 x 3 = 15 Marks

7. Active transport across membranes
8. Application of radioactive isotopes in medicine
9. Significance of free radicals and antioxidants
10. Carcinogens
11. Enzyme linked immune sorbent assay

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# Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - 28-Nov-2020

Time: Three Hours | Max. Marks: 50 Marks

## BIOCHEMISTRY – PAPER II (RS3)

## Q.P. CODE: 1080

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.
(Note: Both QP Codes 1079 and 1080 are to be, answered within total duration of three hours)
(Use separate Answer books for QP Code 1079 & 1080)

### LONG ESSAYS — 1 x 10 = 10 Marks

1. What is the normal range of blood pH? Discuss in detail the role of kidneys in pH regulation. Add a note on metabolic acidosis.

### SHORT ESSAYS — 5 x 5 = 25 Marks

2. Mutation
3. Polymerase Chain Reaction
4. Biochemical functions and deficiency manifestations of Vitamin A
5. Structure and functions of immunoglobulins
6. Heme biosynthesis

### SHORT ANSWERS — 5 x 3 = 15 Marks

7. Biological role of copper in the body
8. Clearance tests
9. Protein energy malnutrition
10. Pellagra
11. Structure of Trna