Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - JULY-2018

Time: Three Hours **Max. Marks: 100 Marks**

Anatomy – Paper I (RS2 & 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. Enumerate the dural venous sinuses and describe the cavernous venous sinus in detail. (3+7)
2. Describe the diaphragm along with its development. (7+3)

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Rhomboid fossa
4. Coronary sinus
5. Chorionic Villi
6. Deltoid and structures undercover of it
7. Thoracic duct
8. Microscopic structure of compact bone
9. Digastric triangle
10. Ulnar nerve in the hand
11. Extensor retinaculum of hand
12. Investing layer of deep cervical fascia

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Foramen magnum
14. Sternal angle
15. Rotator cuff
16. Supination and Pronation
17. Draw a neat labelled diagram of histology of palatine tonsil
18. Openings of Right atrium
19. Hard palate
20. Branches of external carotid artery
21. Filum Terminale
22. Median cubital vein

Rajiv Gandhi University of Health Sciences, Karnataka

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MBBS Phase – I Degree Examination – JULY-2018

Time: Three Hours **Max. Marks: 100 Marks**

Anatomy – Paper II (RS2 & 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 anal canal in detail. Add a note on its applied aspects. (7+3)
2. Describe Knee joint in detail. Add a note on locking and unlocking movements. (7+3)

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Iliotibial tract
4. Second part of duodenum
5. Describe the microscopic structure of vermiform appendix.
6. Derivatives of midgut
7. Portocaval anastomosis
8. Thoracolumbar fascia
9. Autosomal dominant inheritance
10. Ureter
11. Supports of uterus
12. Descent of testis

SHORT ANSWERS **10 x 3 = 30 Marks**

13. RNA- Ribo nucleic acid
14. Transpyloric plane
15. Femoral sheath
16. Peripheral heart
17. Prostatic urethra
18. Draw and label microscopic structure of ovary
19. Derivatives of septum transversum
20. House maid’s knee
21. Cruciate anastomosis
22. Epiploic foramen

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - JULY-2018

Time: Three Hours **Max. Marks: 100 Marks**

Physiology – Paper I (RS2 & 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. Discuss the mechanism of formation of concentrated urine. Add a note on diuresis.
2. Classify leucocytes. Give an account of development and functions of different leucocytes.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Hypoxia
4. Active transport across cell membrane
5. Composition and functions of bile
6. Intrinsic pathway of clotting
7. Digestion and absorption of fats
8. Heart sounds
9. Haldane effect
10. Properties of cardiac muscle
11. Functions of lymph
12. Mass peristalsis

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Apnoea
14. Jugular venous pulse
15. Peripheral resistance
16. Tidal volume
17. Cyanosis
18. Landsteiner's law
19. Functions of saliva
20. Filtration of fraction
21. Fick's principle
22. Types of hemoglobin

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase - I Degree Examination – JULY-2018

Time: Three Hours **Max. Marks: 100 Marks**

Physiology - PAPER II (RS2 & RS3)

QP 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. Mention normal blood calcium level. Explain how it is regulated.
2. Describe the connections, functions of basal ganglia. Add a note on Parkinsonism.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Functions of Middle ear
4. Tests for ovulation
5. Cerebro spinal fluid
6. Neuromuscular junction
7. Visual pathway
8. Spermatogenesis
9. Functions of Thalamus
10. Excitation – contraction coupling
11. Pyramidal tract
12. Regulation of body temperature

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Oxytocin
14. Cretinism
15. Synaptic delay
16. Babinski’s sign
17. Saltatory conduction
18. Taste buds
19. Brown-Sequard syndrome
20. Corpus luteum
21. Renshaw cell inhibition
22. Electroencephalogram (EEG)

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - JULY-2018

Time: Three Hours **Max. Marks: 50 Marks**

Biochemistry – Paper I (RS2 & RS3)

Q.P. 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. Describe the formation, utilization and clinical significance of ketone bodies.

SHORT ESSAYS **5 x 5 = 25 Marks**

2. Amphibolic role of citric acid cycle
3. Pathway for synthesis of creatine, phosphocreatine and creatinine Clinical significance of creatinine kinase
4. Outline the synthesis of cholesterol. Which is the key regulatory step
5. The IUBMB classification of enzymes with one example for each class
6. Different transport mechanisms across the cell membrane

SHORT ANSWERS **5 x 3 = 15 Marks**

7. Metabolic abnormality and clinical manifestation of galactosemia.
8. Three transmethylation reactions of S-adenosyl methionine
9. Regulation of glycolysis at the phosphofructokinase step
10. Energetics in the oxidation of one molecule of palmitic acid to carbon dioxide and water
11. Name three tumour markers and their clinical significance

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MBBS Phase – I Degree Examination - JULY-2018

Time: Three Hours **Max. Marks: 50 Marks**

Biochemistry – Paper II (RS2 & 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. How is Uric acid formed from purine and add a note on Hyperuricemia.

SHORT ESSAYS **5 x 5 = 25 Marks**

2. Structure and function of tRNA
3. Vitamin A deficiency manifestations and it's RDA
4. BMR
5. Erythrocytes in acid base balance
6. Heme biosynthesis

SHORT ANSWERS **5 x 3 = 15 Marks**

7. Role of selenium
8. Vandenberg test
9. Vectors in recombinant DNA technology
10. Types of immunoglobulin and their function
11. Acute intermittent Porphyria

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - SEP-2018

Time: Three Hours **Max. Marks: 100 Marks**

Anatomy – Paper I (RS2 & 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. Name the Muscles of Mastication. Describe their attachments, nerve supply, blood supply and action. (2+3+1+1+3=10)
2. Describe the position, relations, blood supply, lymphatic drainage and clinical aspects of Mammary gland. (1+2+2+3+2=10)

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Typical intercostal space
4. Mediastinal surface of right lung
5. Functional areas and blood supply of superolateral surface of Cerebrum
6. Deltoid muscle
7. Lumbricals of hand
8. Posterior mediastinum
9. Parts and relations of thyroid gland
10. Histology of lymph node
11. Interior of Larynx
12. Notochord

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Histology of Large artery
14. Pericardial sinuses
15. Horner's Syndrome
16. Coracoid process
17. Urothelium
18. Corpus callosum
19. Fertilization
20. Middle meatus of nose
21. Connective tissue fibres
22. Blood supply of spinal cord

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination – SEP-2018

Time: Three Hours **Max. Marks: 100 Marks**

Anatomy – Paper II (RS2 & 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 gross anatomy of Urinary bladder. Add a note on its development. (7+3)
2. Describe the Arches of foot. Add a note on their applied aspects. (8+2)

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Profunda femoris artery
4. Right suprarenal gland
5. Ischiorectal fossa
6. Describe the microscopic structure of duodenum.
7. Development of pancreas and congenital anomalies
8. Klinefelter's syndrome
9. Fallopian tube
10. Lesser omentum
11. Tibiofibular joints
12. Mesentery

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Robertsonian translocation
14. Parts of male urethra
15. Blood supply of stomach
16. Bare areas of liver
17. Femoral sheath
18. Ileocaecal valve
19. Contents of rectus sheath
20. Draw and label microscopic structure of Epididymis
21. Derivatives of mesonephric duct
22. Morrison's hepatorenal pouch

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - SEP-2018

Time: Three Hours **Max. Marks: 100 Marks**

Physiology – Paper I (RS2 & 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 4various stages of Erythropoiesis and factors regulating it.
2. Name the lead systems used in ECG. Describe a normal ECG.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Describe the intercellular junctions.
4. Features of renal circulation
5. Chemical composition and functions of respiratory surfactant
6. Functions of Kidney
7. Properties of Cardiac muscle
8. Functions of Plasma Proteins
9. Physiological dead space
10. Deglutition
11. R-R interval and its significance
12. Body fluid compartments

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Vital capacity
14. Juxta medullary nephron
15. Sickle cell anemia
16. Refractory period of cardiac muscle
17. Dietary fibre
18. Decompression sickness
19. Glucose reabsorption curve in Renal Tubules
20. Chloride shift
21. Renal clearance
22. Purpura

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Rajiv Gandhi University of Health Sciences, Karnataka

First Phase MBBS Degree Examination – SEP-2018

Time: Three Hours **Max. Marks: 100 Marks**

Physiology - Paper II (RS2 & RS3)

QP 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 connections and functions of Basal ganglia. Add a note on its disorders.
2. Describe the calcium homeostasis. Add a note on Hypocalcemic Tetany.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Spermatogenesis and factors regulating it
4. Mention refractive errors of the eye. How they are corrected?
5. Taste pathway and taste disorders
6. Explain the functions of middle ear.
7. Compare cretinism and dwarfism
8. Name the receptors and functions of semicircular canals.
9. Name the tests for pregnancy. Explain immunological test for pregnancy in detail.
10. Endocrine functions of testis
11. Explain EPSP and IPSP.
12. Classify neuromuscular blocking agents. Explain their mechanism of actions.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Otolith organs
14. Thalamic syndrome
15. Organ of corti
16. Gigantism
17. Diabetes insipidus
18. Puberty and Menarche.
19. Saltatory conduction
20. Functions of smooth muscle
21. IUCD
22. Refractory period in skeletal muscle

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – I Degree Examination - SEP-2018

Time: Three Hours **Max. Marks: 50 Marks**

Biochemistry – Paper I (RS2 & 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. Describe how ammonia is formed and detoxified in the body.

SHORT ESSAYS **5 x 5 = 25 Marks**

2. Describe the various type of enzyme inhibition giving suitable examples.
3. Glycogenolysis
4. Define active transport. Explain the different types of active transport with suitable examples.
5. Significance of Hexose Mono Phosphate shunt pathway.
6. What are Xenobiotics? Give an account of phase two detoxification reactions

SHORT ANSWERS **5 x 3 = 15 Marks**

7. Biologically important compounds formed from glycine
8. Free radical scavenging systems
9. Uncouplers of oxidative phosphorylation
10. Pyruvate dehydrogenase complex
11. Oncogenes

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MBBS Phase – I Degree Examination - SEP-2018

Time: Three Hours **Max. Marks: 50 Marks**

Biochemistry – Paper II (RS2 & 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. Explain the process of translation. Add a note on post translational modifications.

SHORT ESSAYS **5 x 5 = 25 Marks**

2. Biological functions and deficiency manifestations of Vitamin C
3. Role of plasma buffers in maintaining blood pH
4. BMR
5. Porphyrias
6. Polymerase Chain Reaction

SHORT ANSWERS **5 x 3 = 15 Marks**

7. Okazaki fragments
8. Gene therapy
9. Dietary fibres
10. Van den Bergh test
11. Acute phase proteins

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