

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

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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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Physiology – Paper I (RS2 & RS3)

Q.P. CODE: 1077

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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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Physiology - PAPER II (RS2 & RS3)
Max. Marks: 100 Marks
QP Code: 1078

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

LONG ESSAYS

1. Mention normal blood calcium level. Explain how it is regulated. **2 x 10 = 20 Marks**
2. Describe the connections, functions of basal ganglia. Add a note on Parkinsonism.

SHORT ESSAYS

3. Functions of Middle ear **10 x 5 = 50 Marks**
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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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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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)

1 x 10 = 10 Marks

LONG ESSAYS

1. How is Uric acid formed from purine and add a note on Hyperuricemia.

5 x 5 = 25 Marks

SHORT ESSAYS

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

5 x 3 = 15 Marks

SHORT ANSWERS

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