48

1075_2010_2_S233

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination – Decembers 2010

Time : 3 Hrs. [Max. Marks : 100]

ANATOMY - PAPER I (Revised Scheme II)

QP Code: 1075

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

LONG ESSAY **2 X 10 = 20 Marks**

1. Describe the thyroid gland under the following headings (a) Capsule (b) Parts (c) Blood supply (d) Histology
2. Describe the first carpometacarpal joint of hand

SHORT ESSAY **10 X 5 = 50 Marks**

3. Ciliary ganglion
4. Caudate nucleus
5. Serous pericardium
6. Extensor retinaculum of hand
7. Draw a diagram of mediastinal surface of left lung
8. Movements of temporomandibular joint
9. Vena azygous
10. Median nerve in the hand
11. Development of tongue
12. Ligamentum arteriosum

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

13. Digastric muscles
14. Development of parathyroid glands
15. Nerve supply of larynx
16. Myoepitheliocytes
17. Types of capillaries
18. Pretracheal fascia
19. Basilar artery
20. Cleft lip
21. Ligamentum denticulatum
22. Nerve supply of diaphragm

* * * * *

8 49

1076_2010_2_S184

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination – December 2010

Time : 3 Hrs. [Max. Marks : 100]

ANATOMY - PAPER II (Revised Scheme II)

QP Code: 1076

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

ONG ESSAY **2 X 10 = 20 Marks**

1. Describe the head of the pancreas under the following headings
   a) Situation and Gross features b) Relations c) Blood supply d) Development
   Describe the origin, root value course, relations and branches of sciatic nerve. Add a note on its applied anatomy.

HORT ESSAY **10 X 5 = 50 Marks**

3. Rectus sheath formation and contents
4. Boundaries and contents of superficial perineal pouch
5. Epiploic foramen
6. Medical longitudinal arch of foot.
7. Vermiform appendix-situation, positions, blood supply, microscopic structure
8. Femoral triangle : boundaries and contents
9. Nerve supply and development of urinary bladder
10. Microscopic structure of liver
11. Popliteus muscle-Origin, insertion, Nerve supply and action
12. Blood supply of stomach

FR. MULLER
CENTRAL LIBRARY

HORT ANSWERS **10 X 3 = 30 Marks**

13. Name the lateral rotator muscles of the hip joint
14. Barr body
15. Draw a labeled diagram of histology of ureter
16. Derivatives of 3rd pharyngeal pouch
17. Derivatives of mesonephric duct in males
18. Name the derivatives of hindgut
19. Phenotype and Genotype
20. Karyotype and clinical features of Down syndrome
21. Ligaments of spleen and their contents
22. Relations of anterior surface of Right Kidney

* * * * *

50 1077_2010_1_S303

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS PHASE I Degree Examination – DECEMBER 2010

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

PHYSIOLOLOGY – I (Revised Scheme II)

Q.P. CODE:1077

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

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Classify Plasma Proteins. Explain their functions. Add a note on Albumin-Globulin ratio
2. Define Systolic and Diastolic Blodd Pressure and give their normal values. Describe the short term mechanism for regulation of Blood Pressure.

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

3 Enterohepatic circulation of Bile Salt

4 Juxta-Glomerular apparatus

5 Ventilation Perfusion Ratio

6 Oxygen dissociation curve

7 Ventricular muscle action Potential

8 Intrinsic Mechanism of Blood coagulation

9 What is Hagen's Poiseuille's law? Write the formula and explain

10 Classify Hypoxia. Explain any two of them

11 Role of Angiotensin II in Glomerular Filtration rate

12 Resting membrane potential

FR. MULLER
CENTRAL LIBRARY

SHORT ANSWERS **10X3=30 Marks**

13 What is the difference between anatomical and physiological Dead space?

14 Draw a labeled diagram of ECG

15 Endocytosis

16 Defaecation Reflux

17 Muscles of Inspiration

18 Physiological basis of a drug in hypertension

19 Exocrine functions of Pancreas

20 Reynold's number

21 Neurogenic Bladder

22 Functions of Haemoglobin

****

10 51

1078_2009_2_S301

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - December 2010

Time : 3 Hrs. [Max. Marks : 100]

PHYSIOLOGY - PAPER II (RS2)

QP Code: 1078

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

LONG ESSAY

2 X 10 = 20 Marks

1. Explain the synthesis, storage and secretion of Thyroid hormone. How is its secretion regulated? Add a note on Hypothyroidism
2. Describe the formation, circulation and functions of C.S.F

SHORT ESSAY

10 X 5 = 50 Marks

3. Refractory errors of the eye
4. Functions of Prefrontal lobe
5. Feto placental Unit
6. Hormonal influence on endometrial changes during menstrual cycle
7. Discuss the length- Tension relationship in cardiac muscle
8. Electromyogram
9. Cholinergic sympathetic fibers
10. Write briefly on Otolith Organs
11. Explain briefly the role of Skin in regulation of Body Temperature
12. Wallerian degeneration

SHORT ANSWERS

10 X 3 = 30 Marks

13. Aldosterone escape
14. Draw and label taste pathway
15. Name four hyperglycemic hormones
16. What are Circadian Rhythms
17. Muscle Spindle
18. Muscle Proteins
19. Functions of Rods and Cones
20. Sweat gland
21. Functions of ADH [Anti Diuretic Hormone]
22. Positive feedback Mechanism

* * * * *

6 52

1079_2010_2_S301

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - December 2010

Time: 3 Hours [Max. Marks: 100]

BIOCHEMISTRY (RS-2)

FR. MULLER CENTRAL LIBRARY

QP Code: 1079 – PAPER I (Max. Marks: 50)

Your answer shall be specific to question asked. Draw neat and labelled diagrams wherever necessary. **Use separate answer books for section A and section B.**

LONG ESSAY 1 X 10 = 10 Marks

1. Describe the metabolism of phenylalanine and tyrosine. Add a note on Tyrosinemia.

SHORT ESSAY 5 X 5 = 25 Marks

2. Protooncogenes and oncogenes
3. Explain substrate level Phosphorylation
4. Rapaprot lubering cycle
5. Define km (Michaelis constant) Value of an enzyme. Write about its importance with a suitable example.
6. Compounds derived from cholesterol

CENTRAL LIBRARY

SHORT ANSWERS 5 X 3 = 15 Marks

7. Enumerate reactive oxygen species and their characteristics
8. What are Xenobiotics? What is the role of Glutathione in detoxication
9. List metabolic functions and clinical significance of lysozymes
10. Role of dietary fibre in Health and disease
11. What is the role of cytochrome P 450 in detoxification

QP Code: 1080 – PAPER II (Max. Marks: 50)

Use separate answer book

LONG ESSAY 1 X 10 = 10 Marks

1. Explain the steps of activation, elongation and termination of protein bio synthesis.

SHORT ESSAY 5 X 5 = 25 Marks

2. Explain the catabolism of purine
3. What is Anion gap? Explain normal anion gap acidosis and high anion gap acidosis with examples.
4. Radioactive isotopes of Iodine and their clinical application
5. What is the normal range of serum potassium and write about hypokalemia.
6. Mention five biochemical functions of pyridoxine in the body with examples.

SHORT ANSWERS 5 X 3 = 15 Marks

7. What is Genetic code? Explain
8. Renal threshold for glucose and its significance
9. List Bio chemical changes in protein – Energy Malnutrition

5 X 53

1075_2009_2_S46

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - June\July 2010

Time : 3 Hrs. [Max. Marks : 100]

ANATOMY - PAPER I (Revised Scheme II)

QP Code: 1075

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

LONG ESSAY **2 X 10 = 20 Marks**

1. Describe the scalp. Add a note on its applied anatomy
2. Describe the shoulder joint. Add a note on applied anatomy

SHORT ESSAY **10 X 5 = 50 Marks**

3. Axillary artery
4. Pterygoplatine ganglion
5. Circle of Willis
6. Mid brain
7. Median nerve in palm
8. Serratus anterior
9. Interior of right atrium
10. Spermatogenesis
11. Extensor Retinaculum of Wrist
12. Microscopic structure of parotid gland

FR. MULLER
CENTRAL LIBRARY

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

13. Contents of axilla
14. Structures above flexor retinaculum
15. Fate of first endodermal pouch
16. Digastric triangle
17. Development of hypophysis
18. Superior oblique muscle of the eye
19. Draw and label microscopic structure of palatine tonsil
20. Transitional epithelium
21. Blood supply of nasal septum
22. Enumerate nuclei of cerebellum

* * * * *

4 X 54

1076_1_2010_S182

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination – June/July - 2010

Time : 3 Hrs. [Max. Marks : 100]

ANATOMY - PAPER II (Revised Scheme II)

QP Code: 1076

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

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the ankle joint under the following headings
   a) Ligaments b) Movements c) Blood supply d) Applied Anatomy
2. Describe the inguinal canal. Add a note on inguinal hernias. Mention factors preventing inguinal hernias.

SHORT ESSAY

10 X 5 = 50 Marks

1. Turner syndrome
2. Autosomal dominat ingeritance
3. Gluteus medius & minimus
4. Iliopsoas
5. Epiploic foramen
6. Head of pancreas
7. Microscopic structure of appendix
8. Microscopic structure of pancreas
9. Ectopic testis
10. Spermatic cord

CENTRAL LIBRARY

SHORT ANSWERS

10 X 3 = 30 Marks

1. Enumerate any three derivatives of mesonephric duct
2. Development of portal vein
3. Draw and label microscopic structures of umbilical cord
4. Draw and label microscopic structures of graafian follicle
5. Tendocalcaneus
6. Peroneus longus muscle
7. Perineal body
8. Enumerate tributaries of inferior vena cave
9. Placenta praevia
10. Enumerate derivatives of hindgut

* * * * *

3

X 55

1077_2009_2_S42

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - June\July 2010

Time: 3 Hrs. [Max. Marks: 100]

PHYSIOLOGY - PAPER I (RS-2 & RS-3)

QP Code: 1077

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

ONG ESSAY **2 X 10 = 20 Marks**

1. Define Jaundice. Enumerate the causes of Jaundice. What is hemolytic disease of the newborn? Discuss in brief
2. What is shock? Classify shock. Discuss the various types & physiological basis of treatment

HORT ESSAY **10 X 5 = 50 Marks**

3. Heart block
4. Strokes – Adam syndrome
5. Parsoxysmal Tachycardia
6. Ventricular Fibrillation
7. Cardiac arrest
8. Reactive hyperaemia
9. Automatic bladder
10. Renal regulation of H^+ ion
11. Renal dialysis
12. Cyanosis

FR. MULLER
CENTRAL LIBRARY

HORT ANSWERS **10 X 3 = 30 Marks**

13. Coagulation factors
14. Thrombocytopenic purpura
15. Hypoxia
16. Cystometrogram
17. Acute mountain sickness
18. Hyper baric oxygen
19. Functions of saliva
20. Gastric phase of gastric secretion
21. Achalasia Cardia
22. Physiological basis of treatment of hyperacidity

* * * * *

2 56

1078_2009_2_S47

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - June\July 2010

Time : 3 Hrs. [Max. Marks : 100]

PHYSIOLOGY - PAPER II (RS-2 & RS-3)

QP Code: 1078

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

LONG ESSAY **2 X 10 = 20 Marks**

1. Describe the connections and functions of basal ganglia. Mention the features of basal ganglia lesion
2. Describe the Neuro muscular Junction. Mention the stage of transmission at nerve muscle junction

SHORT ESSAY **10 X 5 = 50 Marks**

3. Refractory period
4. Myelinogenesis
5. Describe milk ejection reflex
6. Human chorionic gonadotropin
7. Spermatogenesis
8. Dark adaptation
9. Visual pathway and effects of its lesions
10. Muscle spindle
11. Functions of middle ear
12. Referred pain

DR. MULLER
CENTRAL LIBRARY

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

13. Taste buds
14. Acromegaly
15. Name the neurotransmitters in the C.N.S
16. Stereognosis
17. Functions of A.D.H (Antidiuretic hormone)
18. List the features of Grave's disease
19. Renshaw cell inhibition
20. Paradoxical sleep
21. Composition of semen
22. Ovulation

* * * * *

X 57

1079_2009_2_S64

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - June\July 2010

Time: 3 Hours [Max. Marks: 100]

BIOCHEMISTRY (RS-2 & RS-3)

QP Code: 1079 – PAPER I (Max. Marks: 50)

Your answer shall be specific to question asked. Draw neat and labelled diagrams wherever necessary. **Use separate answer books for section A and section B.**

LONG ESSAY 1 X 10 = 10 Marks

1. Discuss in detail oxidative phosphorylation and enumerate its inhibitors

SHORT ESSAY 5 X 5 = 25 Marks

2. Glycogenolysis
3. Transmethylation reactions
4. Metabolism of chylomicrons
5. Non competitive enzyme inhibition
6. Rappaport leubering cycle

FR. MULLER
CENTRAL LIBRARY

SHORT ANSWERS 5 X 3 = 15 Marks

7. Nutritional classification of Amino acids
8. Significance of Serum Amylase
9. Endoplasmic reticulum
10. Niemann pick disease
11. Denaturation

~~QP Code: 1080 – PAPER II (Max. Marks: 50)~~

Use separate answer book

LONG ESSAY 1 X 10 = 10 Marks

1. Discuss the structure and replication of DNA

SHORT ESSAY 5 X 5 = 25 Marks

2. Deficiency manifestations of Vitamin A
3. Protein energy malnutrition
4. Extra cellular buffers
5. Functions of selenium
6. Acute phase proteins

SHORT ANSWERS 5 X 3 = 15 Marks

7. Methemoglobin
8. Dietary fibre
9. Respiratory quotient
10. Renal glycosuria