13

43

1076_2011_1_5263

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination – June / July 2011

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

ANATOMY - PAPER II (RS 2 & RS 3)

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 Uterus in detail. Add a note on its development

2. Describe the parts, blood supply, lymphatic drainage, microscopic structure and development of pancreas

SHORT ESSAY

10 X 5 = 50 Marks

3. Porto – caval anastamoses
4. Ischio – rectal fossa
5. Bile duct
6. Lesser sac
7. Innervation and development of urinary bladder
8. Right supra renal gland
9. Inguinal ligament
10. Hamstring muscles
11. Developmental derivatives of mid gut
12. Fertilization

FR. MULLER
CENTRAL LIBRARY

SHORT ANSWERS

10 X 3 = 30 Marks

13. Microscopic structure of ileum
14. Mutation
15. Sex – chromatin
16. Development of rectum and anal canal
17. Linea aspera of femur
18. Lymphatic drainage of stomach
19. Flexor retinacuium
20. Cutaneous innervation of dorsum of foot
21. Medial longitudinal arch of foot
22. Microscopic structure of ureter

* * * * *

44 1077_2011_1_5265

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS PHASE I Degree Examination – June / July 2011

Time: Three Hours Max. Marks: 100 Marks

PHYSIOLOLOGY – I
(RS 2 & RS 3)
Q.P. CODE: 1077

FR. MULLER CENTRAL LIBRARY

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. Name the lead systems employed in recording Electrocardiogram. Draw and label a typical Electrocardiogram and explain the causation of various deflections and intervals
2. Classify the leucocytes and describe their morphological features with the help of diagrams. Elaborate the steps involved in the phagocytic function of neutrophils

SHORT ESSAYS 10 x 5 = 50 Marks

3 Draw a diagram of Juxta Glomerular apparatus. Explain its functions

4 Mention the causation, morphological features of red cells and treatment of pernicious anemia

5 Describe the factors regulating gastric emptying

6 Describe the chemical regulation of respiration

7 Describe how cushing's reflex is activated and its effect on systemic blood pressure

8 Define Fick's principle. Give details of estimation of cardiac output based on it

9 Describe the mode of Glucose reabsorption in the proximal tubule of the Nephron and TmG

10 What are the types of jaundice, their salient features and method of differentiation

11 Give a brief account of respiratory distress syndrome (Hyaline Membrane Disease)

12 Describe the pharyngeal phase of deglutition

SHORT ANSWERS 10X3=30 Marks

13 What are micelles and how are they formed

14 Define functional residual capacity, its normal range and significance

15 Explain the operation of Hering – Breuer reflex

16 Mention the likely mode of development of diabetes insipidus and its resultant signs and symptoms

17 What are the types of dead space and their extent

18 What is facilitated diffusion and how does it differ from simple diffusion

19 Name the important proteolytic enzymes and their mode of activation

20 Describe how gastric acid secretion can be reduced to treat acid peptic ulcer

21 Mention the effects of vagal stimulation on heart

45 1077_2011_1_S205

Rajiv Gandhi University of Health Sciences, Karnataka

22 What is secondary active transport? Give an example

****

FR. MULLER
CENTRAL LIBRARY

1078_2011_1_S262

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - June / July 2011

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

PHYSIOLOGY - PAPER II
(RS 2 & RS 3)
QP Code: 1078

FR. MULLER
CENTRAL LIBRARY

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

LONG ESSAY 2 X 10 = 20 Marks

1. Classify sensory receptors with an example for each. Describe any five properties of receptors
   Describe the structure of Neuro Muscular Junction and the mechanism of transmission of impulse across neuromuscular junction of skeletal muscle

SHORT ESSAY 10 X 5 = 50 Marks

3. Describe the functions of Basal ganglia
4. Describe the endometrial changes during menstrual cycle
5. Differences between UMN and LMN lesions
6. Principal actions of Insulin
7. Role of hypothalamus in regulation of body temperature
8. Explain the changes during Wallerian degeneration and regeneration of injured nerve fibers
9. Describe the Errors of refraction and their correction
10. Give an account of Acromegaly
11. Describe the actions of testosterone
12. Contents and functions of middle ear

SHORT ANSWERS 10 X 3 = 30 Marks

13. Name the primary taste sensations. What is Aguesia
14. What is aphasia? What are its types
15. What is the normal serum calcium level? List the hormones regulating it
16. What is Aldosterone escape
17. Draw and label a sarcomere in the relaxed state
18. Draw and label olfactory pathway
19. What is the mechanism of action of oral contraceptives
20. What is the normal intra ocular pressure? What is its clinical significance
21. What is phantom limb? What is its physiological basis
22. List the clinical features of cretinism

* * * * *

1079_2011_I_8263

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - June / July 2011

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 the formation and fate of ketone bodies

SHORT ESSAY 5 X 5 = 25 Marks

2. Glycogenolysis
3. Decarboxylation of amino acids
4. Diagnostic uses of enzymes
5. Fatty acid synthase complex
6. Detoxification by oxidation

CENTRAL LIBRARY

SHORT ANSWERS 5 X 3 = 15 Marks

7. Free radicals and disease
8. Active transport
9. Essential amino acids
10. Any three enzymes unique to gluconeogenesis
11. Uncouplers of oxidative phosphorylation

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

Use separate answer book

LONG ESSAY 1 X 10 = 10 Marks

1. What is genetic code. Describe the process of eukaryotic translation

SHORT ESSAY 5 X 5 = 25 Marks

2. Nitrogen balance
3. Functions of albumin
4. Biochemical functions and deficiency manigestations of vitamin D
5. Functions of iodine
6. Structure of mRNA

SHORT ANSWERS 5 X 3 = 15 Marks

7. Types and causes of beri – beri
8. Causes of sickle cell anemia
9. Immunoglobulin A (IgA) and immunoglobulin M (IgM)
10. Describe any three renal function tests

41

1079_2011_2_S265

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - Dec 2011 / Jan 2012

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. Describe the reactions of Urea cycle. Discuss the interrelation of urea cycle and citric acid cycle. What is the reference range for serum urea?

SHORT ESSAY **5 X 5 = 25 Marks**

2. Classify transport mechanisms across cell membranes. Define uniport, symport and antiport. Give an example of each
3. Define primary, secondary, Tertiary and Quarternary structure of protein. What are the noncovalent forces which preserve the secondary structure
4. Explain the mechanism of action of Allosteric Enzymes? Name the Allosteric Inhibitor and Allosteric Activator for Phosphofructokinase and Acetyl CoA – Carboxylase
5. Outline the steps for synthesis of cholesterol. Discuss the rate limiting step and regulation of synthesis of cholesterol
6. Describe the reactions of Citric Acid cycle

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

7. Oncogenes
8. Thyroid function tests – Routine and anti – TPO
9. Cytochromes
10. GTT Graph for Renal Glycosuria
11. Anti – oxidants

FR. MÜLLER
CENTRAL LIBRARY

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

Use separate answer book

LONG ESSAY **1 X 10 = 10 Marks**

1. What is gluconeoqenesis? Describe the pathway in detail and add a note on its significance

SHORT ESSAY **5 X 5 = 25 Marks**

2. Briefly outline the steps of Denovo synthesis of purine
3. Hormonal regulation of Fluid and Electrolyte
4. Briefly explain the renal mechanisms involved in maintenance of pH of blood
5. Sources, biochemical role and dietary requirement of vitamin A
6. Protein Calorie malnutrition

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

7. Operon concept
8. Bence jones proteins
9. What is porphyria? Mention the defect and signs and symptoms of acute intermittent porphyria
10. Enumerate three functions of the liver and three tests with reference ranges to assess them
11. What is a Chimeric DNA molecule. Give the applications of recombinant technology

× 14 42

1075_2011_1_S261

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination – June / July 2011

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

ANATOMY - PAPER I (RS 2 & RS 3)

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 blood supply of heart in detail
2. Describe the muscles of mastication in detail

SHORT ESSAY 10 X 5 = 50 Marks

3. Bronchopulmonary segments
4. Blastocyst
5. Microscopic structure of cardiac muscle
6. Somites
7. Axillary artery
8. Movements of supination and pronation
9. Circle of willis
10. Lacrimal apparatus
11. Carotid sheath
12. Development andlymphatic drainage of tongue

FR. MULLER
CENTRAL LIBRARY

SHORT ANSWERS 10 X 3 = 30 Marks

13. Sternal angle
14. Palmar aponenrosis
15. Laws of ossification
16. Cells of connective tissue
17. Musculocutaneous nerve
18. Clavi -- pectoral fascia
19. Claw hand
20. Filum terminale
21. Ansa cervicalis
22. Structures passing through foramen magnum

* * * * *