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1075_2006_2_S13

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - I Degree Examination - August 2006

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. Write the diagram of circle of Willis and the anterior cerebral artery and its branches. Name the areas that anterior cerebral artery supplies.
2. Describe internal features and openings of right atrium. Add a note on its development.

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

3. Parotid duct
4. Maxillary air sinus
5. Floor of fourth ventricle
6. Write labelled diagram of cross section midbrain at the level of superior colliculii. Add a note on connections of red nucleus.
7. Major openings in diaphragm
8. Bronchopulmonary segments of right lung
9. Ulnar nerve in hand
10. Brachial artery.
11. Boundaries and contents of sub-occipital space.
12. Describe upper end of humerus

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

13. Superior orbital fissure.
14. Development of palatine tonsil
15. Nerve supply of larynx
16. Name any six branches of external carotid artery
17. Sternal angle
18. Microscopic structure of trachea
19. Bilaminar germ disc
20. Bursa
21. Somite
22. Lumbricals of hand

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1076_2006_2_S19

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - I Degree Examination - August 2006

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 Uterus under the following headings:
   a) Normal axis b) Parts c) Relations d) Supports
2. Describe the hip joint under the following headings:
   a) Bones taking part b) Ligaments & movements
   c) Muscle producing those movements d) Applied aspects

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

3. Ligaments of Spleen
4. Stomach bed
5. Vermiform appendix
6. Second part of duodenum
7. Histology of ovary
8. Development of pancreas
9. Dorsalis pedis artery
10. Popliteus muscle
11. Chromosome
12. Pudendal nerve

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

13. Great saphanous vein
14. Profunda femoris artery
15. Inguinal lymph nodes
16. Histology of vas deferens
17. Fallopian tube
18. Porta hepatis
19. Parts of large intestine
20. Epiploic foramen
21. Ventral mesogastrium
22. Sites of portocaval anastamoses

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1077_2006_2_S14

Rajiv Gandhi University of Health Sciences

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M.B.B.S. PHASE - I Degree Examination - August 2006

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

PHYSIOLOGY - Paper I (Revised Scheme II)

QP Code: 1077

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 process of erythropoiesis. How is this process regulated?
2. Describe the renal mechanisms of maintenance of normal specific gravity of urine.

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

3. Rhesus factor
4. Lung surfactant and its applied aspects.
5. Rennin – angiotensin system
6. First and second heart sounds.
7. Regulation of gastric secretion
8. Korotkoff's sounds
9. Hypoxia
10. Mechanism of deglutition
11. Baroreceptor reflexes
12. Components and functions of bile

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

13. Einthoven's triangle.
14. Secondary active transport
15. Laboratory classification of anaemia
16. Triple response
17. Types of cyanosis
18. Cardiac index
19. Autoimmune phenomenon
20. Two non-respiratory functions of lung
21. Normal values for O_2 and CO_2 tensions in air, alveoli and blood
22. Herring – Brewer reflexes

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1078_2006_2_S14

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - August 2006

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

PHYSIOLOGY - Paper II (Revised Scheme II)

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. What are the mechanisms to perceive color vision? Add a note on color blindness.
2. Discuss in brief the hormonal control of menstrual cycle. What is menopause?

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

3. Hypothalamo – hypophysial axis
4. Cushing's syndrome
5. Hypocalcemic tetany
6. Thalamic syndrome

or

7. Five differences between smooth muscle and cardiac muscle
8. Turner's syndrome
9. Site of lesion and reflexes present in decerebrate cat
10. Stages of slow wave sleep
11. Feedback control of thyroid hormone secretion
12. Myasthenia gravis

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

13. Sarcomere
14. Babinski sign
15. Somatomedins
16. Mention neuromuscular junction hormones
17. Habituation and sensitization
18. Accommodation in eye
19. Masking
20. Triple response
21. Mass reflex
22. Role of hypothalamus in hunger

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1079_2006_2_S11

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - August 2006

e: 3 Hours [Max. Marks: 100]

BIOCHEMSITRY (Revised Scheme II)

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.**

NG ESSAY **1 X 10 = 10 Marks**

Discuss the significance of multi enzyme complexes with respect to carbohydrate and lipid metabolism.

ORT ESSAY **5 X 5 = 25 Marks**

How is ammonia detoxified in the body

Mechanism of oxidative phosphorylation

Ketogenesis

or Gluconeogenesis

Conjugation in detoxification

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

Carnitine cycle

Biologically active peptides

Glycosaminoglycans

. Vitamin – E

. Methanol poisoning can be alleviated by ethanol, justify

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

Use separate answer book

ONG ESSAY **1 X 10 = 10 Marks**

. Name the coenzyme forms of vitamin involved in amino acid metabolism. Discuss the biochemical functions and deficiency manifestations of this vitamin

HORT ESSAY **5 X 5 = 25 Marks**

. Clearance tests

. Blood buffers and their role in acid-base balance

. Biological role of zinc in the body

. PCR

. BMR

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

7. 2,3 BPG

8. Cyclic nucleotides

9. Intracellular insulin receptor

10. How bilirubin is made water soluble

11. Bence-Jones proteins

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1075_2006_1_S01

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - I Degree Examination March 2006

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.

NG ESSAY 2 X 10 = 20 Marks

Describe the blood supply and venous drainage of face and add a note on applied anatomy

Define bronchopulmonary segments. Name the bronchopulmonary segments present in the left lung and add a note on its applied aspects.

ort essay 10 x 5 = 50 marks

Lateral pterygoid muscle
Internal capsule
Thoracic duct
Flexor retinaculum of hand
First pharyngeal arch
Microscopic anatomy lung
Medical lemniscus
. Cornea
. Biceps brachii muscle
. Middle meatus of nose

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ort answers 10 x 3 = 30 marks

3. Growing end of long bone
4. Chorionic villi
5. Epiglottis
6. Multipolar neuron (diagram and label)
7. Cross section of spinal cord to show ascending and descending tracts (only labeled diagram)
8. Surgical neck of humerus
9. Parotid duct
0. Styloid process of temporal bone
1. Mid palmar space
2. Tributaries of cavernous sinus

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Rajiv Gandhi University of Health Sciences, Karnataka

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M.B.B.S. PHASE - I Degree Examination March 2006

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 inguinal canal under the following headings
   a) Extent b) boundaries c) structures passing through d) applied anatomy
2. Describe the boundaries, contents and applied anatomy of popliteal fossa

Short essay 10 x 5 = 50 marks

3. Suprarenal glands arterial supply and venous drainage
4. Femoral sheath – formation, contents and applied anatomy
5. Meckel's diverticulum
6. Prostate – lobes and applied anatomy
7. Dorsalis pedis artery – formation, termination relations and branches
8. Ischiorectal fossa – boundaries, contents and applied anatomy
9. Mesonephric duct
10. Microstructure of liver
11. Locking and unlocking movements of knee joint
12. Pudendal canal

Short answers 10 x 3 = 30 marks

13. Greater trochanter of femur
14. Epiploic foramen
15. Microstructure of ureter
16. Perineal body
17. Pectineus
18. Left renal vein
19. Sacrotuberous ligament-attachments and morphology
20. Down's syndrome
21. Structure related to the pelvic surface of sacrum
22. Meiosis

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Rajiv Gandhi University of Health Sciences

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M.B.B.S. PHASE - I Degree Examination March 2006

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

PHYSIOLOGY

Paper – I

(Revised Scheme II)

QP Code: 1077

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 neural control of respiration. What is Apneusis?
2. What is the normal arterial blood pressure? How is it measured and regulated?

SHORT ESSAY 10 X 5 = 50 Marks

3. Cell mediated immunity.
4. Capillary circulation.
5. Cholecystokinin – Pancreozymin.
6. Diagrammatic representation of Oxygen dissociation curve and the effect of pH on it.
7. Pathophysiology of peptic Ulcer.
8. Three Anticoagulants and their mode of action.
9. Draw a labeled diagram of a Cystometrogram.
10. Generation and conduction of Cardiac Impulse.
11. Renal compensation in respiratory Acidosis.
12. Functions of saliva.

SHORT ANSWERS 10 X 3 = 30 Marks

13. Three important functions of Plasma proteins.
14. Physiological dead space.
15. Osmotic diuresis.
16. Plasma cells.
17. Landsteiner's Law.
18. Enterohepatic circulation of bile Salts.
19. Differences between pulmonary and systemic circulation.
20. Types of intestinal motility.
21. Starling's law of heart.
22. Functions of platelets.

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Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination March 2006

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

PHYSIOLOGY

Paper – II

(Revised Scheme II)

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 how hormones regulate serum calcium level ?
2. Describe the neurological changes that are seen four weeks after complete transection of the spinal cord at L-1 level.

SHORT ESSAY 10 X 5 = 50 Marks

3. Explain the role of 'positive feedback' regulation in endocrinology with one example.
4. Explain the basis of any two features of diabetes insipidus
5. List four features of cerebellar lesions and explain the basis of any one.
6. Explain the significance of 'sensory adaptation' with examples.
7. Explain pitch discrimination by the human ear.
8. Draw a diagram to show the different refractive media of the eye and explain their role in the diopteric power of the eye.
9. Draw a diagram to show the taste pathway from the anterior two-thirds of the tongue.
10. Describe a normal audiogram.
11. Explain the basis of the configuration of a compound action potential.
12. Draw diagrams to compare the sarcomere at rest and during contraction.

SHORT ANSWERS 10 X 3 = 30 Marks

13. Describe the role of testoterone in foetal life.
14. Name the gonadotrophins and give the source of each.
15. On a line diagram, indicate the 'safe period' in a 30-day menstrual cycle and give the significance of this knowledge.
16. Explain how 'endometrial biopsy' is used to assess fertility.
17. Explain how sweating helps to regulate body temperature.
18. Explain two special properties of visceral smooth muscle.
19. Explain the mechanism of action of curare.
20. Classify sensory receptors.
21. Draw the reflex arc for knee jerk.
22. Explain the basis of phantom pain.

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1079_2006_1_S01

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - I Degree Examination March 2006

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

BIOCHEMSITRY PAPER
(Revised Scheme II)

Paper – I [QP Code – 1079]

[50 Marks]

Note : Answer Paper – I & II in separate Answer Booklets.

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

LONG ESSAY 1 X 10 = 10 Marks

1. Enumerate the compounds formed from glycine, giving their biochemical importance. Why glycine is nutritionally non-essential ?

SHORT ESSAY 5 X 5 = 25 Marks

2. Write steps of beta oxidation of fatty acids with energetics
3. Give outline of gluconeogenesis & mention its significance.
4. What are Isoenzymes & give their clinical importance citing two examples.
5. What is P:O ratio? Which are inhibitors of Electron Transport Chain?
6. Write in detail with examples reactions involved in detoxification.

SHORT ANSWERS 5 X 3 = 15 Marks

7. Mention significance of HMP shunt pathway.
8. Name essential fatty acids & mention their importance
9. What is Km value ? Explain its importance.
10. Name three important growth factors & mention their function.
11. Explain troponin as a marker for myocardial infarction.

[Shall be answered in a separate answer book.
Write Q P code on the booklet properly]

Paper – II [QP Code – 1080]

[50 Marks]

LONG ESSAY 1 X 10 = 10 Marks

12. Give an account of the chemistry, sources, daily requirements of vitamin C ? Enumerate its biochemical functions & deficiency manifestations.

SHORT ESSAY 5 X 5 = 25 Marks

13. What is the normal serum calcium level. Explain its regulation.
14. Name clearance tests used to asses kidney function. Explain any one of the clearance tests & mention its significance.
15. Name the buffer system of body fluids. Explain any one of them.
16. Give an account on salvage pathway.
17. Haemoglobinopathies.

SHORT ANSWERS 5 X 3 = 15 Marks

18. What is Bence Jones Proteins. Mention its significance.
19. Name bacterial DNA polymerases. Mention its significance.
20. Distinguish between RNA and DNA.
21. What is gene therapy. Name vectors used for gene therapy.
22. Nutritional deficiency anemias.

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