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1601_2010_1_S42

Rajiv Gandhi University of Health Sciences, Karnataka

First year B.Sc. M.L.T. Degree Examination – Feb - 2010

Time: Three Hours **Max. Marks: 80 Marks**

ANATOMY – (Revised Scheme)

Q.P. CODE: 1601

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 parts of liver. Describe the blood supply and microstructure
2. Define the bronchopulmonary segment. List the bronchopulmonary segments of right and left lungs
3. Name the parts of Femal reproductive system. Describe in detail the Uterus

SHORT ESSAYS **8 x 5 = 40 Marks**

4. Humerus
5. Cubital fossa
6. Palatine tonsil
7. Histology of thyroid gland
8. Classification of muscles with examples
9. Right atrium of heart
10. Duodenum
11. Urinary bladder

SHORT ANSWERS **10 x 2 = 20 Marks**

12. Name the branches of lateral cord of brachial plexus
13. Name arteries supplying to the stomach
14. List the features of hyaline cartilage
15. Clinical importance of sternal angle
16. Lumbar puncture
17. Name the bones forming the pelvic girdle
18. Name the parts of the pancreas and its function
19. Features of Down syndrome
20. Commencement and termination of the thoracic duct
21. Sesamoid bone

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1602_2010_1_S43

Rajiv Gandhi University of Health Sciences, Karnataka

First year B.Sc. (M.L.T) Degree Examination – Feb - 2010

Time: Three Hours **Max. Marks: 80 Marks**

PHYSIOLOGY & BIOCHEMISTRY

Q.P. CODE: 1602 & 1603

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

Use separate answer books for section A and section B

Q.P. Code: 1602 – Section A – PHYSIOLOGY (40 Marks)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Describe the corticospinal tract from its origin to termination with a neat diagram. What is hemiplegia?
2. Describe the regulation of gastric acid secretion

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Define Blood pressure. Give the normal value. Explain any one mechanism of BP regulation
4. Explain the oxygen dissociation curve
5. What is synapse? What are its properties?
6. Explain the function of skin in temperature control
7. Draw the diagram of a nephron and label the parts

SHORT ANSWERS **5 x 2 = 10 Marks**

8. What is micturition reflex?
9. Name the hormones of posterior pituitary gland
10. List any four functions of placenta
11. Name any four contraceptive methods
12. Name the structures of the middle ear

Q.P. Code: 1603 – Section B – BIOCHEMISTRY (40 Marks)

Use separate answer book

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Classify carbohydrates with examples
2. Define acids and bases. Derive Henderson – Hasselbach equation. Add a note on the biological significance of pH

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Denaturation
4. Disaccharides
5. Functions of Nucleotides
6. Cholesterol
7. Indicators

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Epimerism
9. Isoelectric pH
10. Define normality. What is the normality of conc. H_2SO_4
11. Ribosomal RNA
12. Osazone test

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1604_2010_1_S42

Rajiv Gandhi University of Health Sciences, Karnataka

First year B.Sc. (M.L.T) Degree Examination – Feb - 2010

Time: Three Hours **Max. Marks: 80 Marks**

PATHOLOGY & MICROBIOLOGY

Q.P. CODE: 1604 & 1605

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

Use separate answer books for section A and section B

Q.P. Code: 1604 – Section A – PATHOLOGY (40 Marks)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Name the types of specimens received in a laboratory. What precautions would you take while processing a sample from a HIV patient?
2. What is record keeping in a laboratory? How is it done? What is it's importance?

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Types of fixatives
4. Steps to hasten tissue processing
5. Care of microscope
6. Bile salts in urine
7. Azoospermia

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Name 2 bile stained ova in stool
9. Name 2 clearing agents
10. Snop indexing
11. Preparation of buffered formalin
12. Blueing

Q.P. Code: 1605 – Section B – MICROBIOLOGY (40 Marks)

Use separate answer book

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Describe in detail the principle, methodology and quality control of antibiotic susceptibility testing in vitro
2. Define sterilization. Write in detail the methods of sterilization using moist heat

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Bacterial spore
4. Blood culture
5. Acid fast staining
6. Bacterial motility
7. Conjugation

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Robert Koch
9. Pasteurization of milk
10. Disinfectants used in the hospital
11. Gram's staining
12. Inspissation

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