Rajiv Gandhi University of Health Sciences, Karnataka

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. (Allied Health Sciences) Degree Examination – Feb / Mar 2012

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

PHYSIOLOGY – RS-2

(MLT, O.T. Technology, Cardiac Care Technology, Perfusion Technology, Neuro Sciences Technology, Renal Dialysis Technology, Respiratory Care Technology, Medical Imaging Technology & Radiotherapy Technology)

Q.P. CODE: 1227

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. Define GFR and give its normal value. Mention the factors regulating the GFR.
2. Name four ascending tracts of the spinal cord. Trace the pathway for fine touch.
3. Explain Lymph formation. Enumerate the functions of lymph

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

4. Explain with a labeled diagram the defecation reflex.
5. Define hypoxia. Tabulate the distinguishing features of different types of hypoxia.
6. Describe the functions of estrogen.
7. Define Jaundice. Briefly explain the three types of Jaundice.
8. Explain the properties of nerve fibre.
9. Tabulate the differences between the I and II heart sounds.
10. Draw a schematic diagram to show the intrinsic pathway of coagulation,
11. Describe the composition and functions of saliva.

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

12. Give a clinical features of Cushing's syndrome
13. Functions of blood.
14. Define night blindness
15. Define intrapleural pressure. Give its normal value.
16. Draw the components of a reflex arc.
17. Draw labeled diagrams of Neutrophil and specify its functions.
18. Define shock and enumerate the types of shock.
19. Define the term renal clearance giving its formula.
20. What is MCV? Give its normal value?
21. List three contraceptive methods in males.
22. In a tabular column indicate the antigens and antibodies of the ABO and Rh blood group
23. Name the anterior pituitary hormones.

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BIOCHEMISTRY (RS-2)

(MLT, O.T. Technology, Cardiac Care Technology, Perfusion Technology, Neuro Sciences Technology, Renal Dialysis Technology, Respiratory Care Technology, Medical Imaging Technology & Radiotherapy Technology)

Q.P. CODE: 1228

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

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

1. Explain nutritional importance of lipids, carbohydrates and proteins
2. Acids & bases; definition, physical and chemical properties with examples

SHORT ESSAY (Any Six) **6 x 5 = 30 Marks**

3. Renal function tests
4. Metabolic acidosis
5. Vitamins
6. Collection of blood
7. Analytical balance & it's uses
8. pH meter
9. Dietary fiber
10. Safety measures in laboratory

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SHORT ANWERS (Any Ten) **10 x 3 = 30 Marks**

11. Dalton's theory
12. Anticoagulants
13. Indicator
14. Bicarbonate buffer
15. Molecular weight
16. Anion gap
17. Accuracy
18. Dessicator
19. Conventional & SI units
20. Borosilicate glass & significance
21. Benedict's test
22. Blood buffers

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I Year B.Sc. (Allied Health Sciences) Degree Examination - Feb / Mar 2012

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

PATHOLOGY (RS-2)

(Clinical Pathology & Heamatology & Blood Banking)

(MLT, O.T. Technology, Cardiac Care Technology, Perfusion Technology, Neuro Sciences Technology, Renal Dialysis Technology, Respiratory Care Technology, Medical Imaging Technology & Radiotherapy Technology)

Q.P. CODE: 1229

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

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

1. Discuss in detail about the collection, transport, preservation and processing of various clinical specimens
2. Discuss in detail the physical, chemical and microscopic examination of pleural fluid

SHORT ESSAY (Any Six) **6 x 5 = 30 Marks**

3. Parts of microscope and its maintenance
4. CSF cell type and cell count
5. Factors affecting E.S.R
6. Describe various fixative used in histopathology
7. Automated tissue processor
8. Biomedical waste management
9. Describe cross match
10. Name different methods of Hb estimation. Explain Sanu's method in detail

SHORT ANWERS (Any Ten) **10 x 3 = 30 Marks**

11. Care and selection of waxes for embedding
12. Causes of ketonuria
13. Clearing
14. Two causes for ascites
15. Impregnation
16. Stropping
17. Rake angel
18. Softening hard tissues
19. Tamm-Hors fall protein
20. Differentiators
21. Name various blood groups
22. Name Ova & cysts in stool

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Rajiv Gandhi University of Health Sciences, Karnataka

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. (Allied Health Sciences) Degree Examination - Feb / Mar 2012

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

MICROBIOLOGY (RS-2)

(MLT, O.T. Technology, Cardiac Care Technology, Perfusion Technology, Neuro Sciences Technology, Renal Dialysis Technology, Respiratory Care Technology, Medical Imaging Technology & Radiotherapy Technology)

Q.P. CODE: 1230

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

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

1. Describe in detail the structure of bacterial cell
2. Describe the morphology, cultivation, diseases caused and laboratory diagnosis of Corynebacterium diphtheriae

SHORT ESSAY (Any Six) **6 x 5 = 30 Marks**

3. Hot air oven
4. Immunization schedule
5. Antibiotic sensitivity testing
6. Gram staining
7. WIDAL test
8. Morphology of virus
9. Hydatio cyst
10. Bacterial growth curve

SHORT ANWERS (Any Ten) **10 x 3 = 30 Marks**

11. Anti Streptolysin O Test
12. Name any three bacteria which cause bacterial dysentery
13. Western Blot Test
14. Pasteurization
15. Germ Tube Test
16. Markers of Hepatitis B virus
17. Polio vaccines
18. Rideal Walker Test
19. Agar agar
20. National Institute of Health Swab
21. Mention three methods to control hospital infections
22. Name any three dermatophytes

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. (Allied Health Sciences) Degree Examination - Sep 2012

Time: Three Hours | Max. Marks: 80 Marks

ANATOMY (Including Histology)- RS-2

(MLT, O.T. Technology, Cardiac Care Technology, Perfusion Technology, Neuro Sciences Technology, Renal Dialysis Technology, Respiratory Care Technology, Medical Imaging Technology & Radiotherapy Technology)

Q.P. CODE: 1226

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

LONG ESSAY 2 x 10 = 20 Marks

1. Draw and label a diagram of the digestive system. Describe the stomach in detail
2. Name the cranial nerves in order. Give the parts of the brain. Describe the spinal cord

SHORT ESSAY (Answer any six) 6 x 5 = 30 Marks

3. Brachial plexus
4. Skin and its appendages (Histology)
5. Draw and label a diagram of eyeball
6. Second part of duodenum
7. Parts of respiratory system. Describe the trachea
8. Parts of male reproductive system. Describe the testis
9. Urinary bladder
10. Synovial joint

SHORT ANWERS (Answer any ten) 10 x 3 = 30 Marks

11. Parts of fallopian tube
12. Hormones secreted by thyroid gland
13. Name the ventricles of brain
14. Clavicle bone
15. Radial nerve
16. Portal circulation
17. Circle of Willis
18. Nephron
19. Structures in hilum of lung
20. Commencement and termination of thoracic duct
21. Name the inter costal muscles
22. External jugular vein

Rajiv Gandhi University of Health Sciences, Karnataka

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I Year B.Sc. (Allied Health Sciences) Degree Examination - Sep 2012

Time: Three Hours | Max. Marks: 80 Marks

PHYSIOLOGY – RS-2

(MLT, O.T. Technology, Cardiac Care Technology, Perfusion Technology, Neuro Sciences Technology, Renal Dialysis Technology, Respiratory Care Technology, Medical Imaging Technology & Radiotherapy Technology)

Q.P. CODE: 1227

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

LONG ESSAY — 2 x 10 = 20 Marks

1. Mechanism and regulation of respiration.
2. Classify muscle tissue. Describe a neuromuscular junction.

SHORT ESSAY (Any Six) — 6 x 5 = 30 Marks

3. Functions of WBC.
4. Functions of Insulin.
5. Draw a diagram of cardiac cycle.
6. Contraceptive methods in males and females.
7. Functions of Hypothalamus.
8. Chewing Reflex.
9. Functions of Cerebrum.
10. Hormones regulating urine secretion. Name the site of action.

SHORT ANWERS (Any Ten) — 10 x 3 = 30 Marks

11. Major and Minor cross matching.
12. Normal heart sounds and mechanism of production.
13. Define cardiac Output. Normal value in adults.
14. Functions of Stomach.
15. Vanderburg reaction.
16. Functions of Adrenaline.
17. GFR definition and Normal values.
18. Functions of Cerebrospinal fluid.
19. Define Cynosis. Mention the types.
20. Stages of Menstrual cycle.
21. Hypoxia.
22. Clinical signs of Hypothyroidism.

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. (Allied Health Sciences) Degree Examination - Sep 2012

Time: Three Hours | Max. Marks: 80 Marks

BIOCHEMISTRY (RS-2)

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Q.P. CODE: 1228

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

LONG ESSAY — 2 x 10 = 20 Marks

1. Basic principles and estimation of blood gases and pH
2. What are carbohydrates? Classify them and give examples for each class

SHORT ESSAY (Any Six) — 6 x 5 = 30 Marks

3. Acids and bases
4. Buffers
5. Spectrophotometer
6. Nutritional importance of carbohydrates
7. Respiratory alkalosis
8. Collection of blood
9. Renal function tests
10. Quality control

SHORT ANWERS (Any Ten) — 10 x 3 = 30 Marks

11. Pre analytical variables
12. Calibration of pipettes
13. Dessicator
14. Nitrogen balance
15. Standard solution
16. Equivalent weight
17. Common renal diseases
18. Use of preservatives in urine
19. Sodium regulation
20. Composition of urine
21. Calorific value
22. Henderson Hasselback equation

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I Year B.Sc. (Allied Health Sciences) Degree Examination - Sep 2012

Time: Three Hours | Max. Marks: 80 Marks

PATHOLOGY (RS-2)

(Clinical Pathology & Heamatology & Blood Banking)

(MLT, O.T. Technology, Cardiac Care Technology, Perfusion Technology, Neuro Sciences Technology, Renal Dialysis Technology, Respiratory Care Technology, Medical Imaging Technology & Radiotherapy Technology)

Q.P. CODE: 1229

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

LONG ESSAY 2 x 10 = 20 Marks

1. Write an essay on the preparation of unstained and stained wet films of faucal smears. Add a note on important features of floatation technique
2. Write essay on how you ensure quality control in your laboratory

SHORT ESSAY (Any Six) 6 x 5 = 30 Marks

3. How do you prepare decalcifying fluid? How do you put it to use?
4. What are the tests to detect albumin in urine? Explain briefly their normal value and clinical significance
5. Preparation of urine for microscopy and cytology
6. How do you do and interpret benedict's tests?
7. Reception of specimen and dispatch of reports
8. What is casting on blocking? Explain different types of mould
9. PCV - Describe different methods
10. Describe various anti co-agulants

SHORT ANWERS (Any Ten) 10 x 3 = 30 Marks

11. Name the parasites found in stool
12. Water soluble waxes
13. How do you remove formalin pigment from tissue sections?
14. What is the test is done to detect blood in urine? Write briefly the procedure
15. What are the ideal qualities of fixative?
16. What is clearing? Give examples
17. CSF cell type and cell count
18. Name the four fixatives in histopathology
19. Mention two disorders where ketone bodies are found
20. Name the anticoagulant used in ESR and its concentration
21. Name various blood groups
22. Name different microtome

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Q.P. CODE: 1230

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

LONG ESSAY — 2 x 10 = 20 Marks

1. Define immunity and classify different types of immunity. Add a detailed account of acquired immunity
2. Describe the morphology, cultivation, diseases caused and laboratory diagnosis of Bacillus anthracis

SHORT ESSAY (Any Six) — 6 x 5 = 30 Marks

3. Autoclave
4. Post streptococcal infection glomerulo nephritis
5. Pili
6. Adjuvant
7. Infectious mononucleosis
8. Strongyloides stercoralis
9. Classification of leprosy
10. Candidiasis

SHORT ANWERS (Any Ten) — 10 x 3 = 30 Marks

11. Prophylaxis of hepatitis A virus infection
12. Give three examples of selective media
13. Sterilization of OT
14. Kirby Bauer disc diffusion test
15. Give three methods of prevention of hospital infection
16. Three organisms causing pneumonia
17. KoH mount
18. Complications Plasmodium falciparum malaria
19. Viral envelope
20. Lab diagnosis for identification of carrier stage for typhoid infection
21. Negative staining
22. National institute of health swab

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