3

2201_2011_1_S42

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Radiography Degree Examination – Mar 2013

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

ANATOMY

Q.P. CODE: 2201

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 Gastro-intestinal system. Describe the stomach
2. Describe the external features and blood supply of thyroid gland
3. Name the features of a typical rib and any 3 muscles attached

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Coverings of the kidney
5. Saddle joint
6. Nerves carrying taste sensation
7. Graafian follicle
8. Name the bones of lower limb and their types
9. Histology of thick skin
10. Types of simple epithelium and examples
11. Name 5 features of interior of left ventricle
12. Name the contents of the middle ear
13. Name the muscles of the eyeball and their nerve supply

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

14. Two ligaments of the stomach
15. Two examples of Sesamoid bone
16. Two features of portal vein
17. Structures in hilum of left lung
18. Name the cranial fossae
19. Two differences between jejunum and ileum
20. Name two evertors of the foot
21. Name the muscles supplied by Obturator nerve
22. Name two superficial veins of the lower limb
23. Name 2 respiratory muscles

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4

2202_2011_1_S123

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Radiography Degree Examination – Mar 2013

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

PHYSIOLOGY

Q.P. CODE: 2202

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. Discuss Mechanism of oxygen transport with a diagram of oxygen Dissociation Curve
2. Discuss Mechanism of short term blood pressure regulation
3. Describe mechanism of urine formation

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Pathways coagulation
5. Lateral and ventral spinothalamictract
6. Stages of Spermatogenesis. Factors regulating spermatogenesis
7. Function of thyroid hormone
8. Differences between first and second heart sounds
9. Morphological classification of anemia's
10. Types of Hypoxia
11. Functions of pancreatic Juice
12. Neuromuscular Transmission
13. Pregnancy tests

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

14. Rinne's test
15. JUCD
16. Acromegaly
17. MCV
18. Tidal volume
19. Myopia
20. Primary taste Sensations
21. Colour Blindness
22. Classify Synapses
23. 4 functions of Kidney

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2203_2011_1_S45

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Radiography Degree Examination – Mar 2013

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

RADIOLOGICAL PHYSICS

Q.P. CODE: 2203

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 Radioactivity, radioactive decay and half life of an radioactive isotope. Derive the equation for decay
2. Write in detail principle, construction and working of an Ac transformer
3. a) Explain continuous spectrum and lini or characteristic spectrum
   b) Explain the factors influencing the intensity and quality of xrays

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Scattered radiation
5. Half value thickness
6. Thermionic emission
7. Pain production and photo disintegraters
8. Thermo luminesceril dorimeter
9. Dox equivalent & effective don equivalent
10. Self rectifying circuit
11. Cooling of X ray tube
12. Alpha, beta & gamma radiation
13. Inverse square law

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

14. Atomic number
15. Self induction
16. Exposure
17. Shock proofing
18. Electron volt
19. Mass attenuation coefficient
20. Isotopes used in nuclear medicine
21. p-n function diode
22. Basic X ray circuit
23. Absorbed dose

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2203_2013_2_S301

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Radiography Degree Examination – Aug 2013

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

RADIOLOGICAL PHYSICS

Q.P. CODE: 2203

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. Explain about the theory, construction and working of an A. C. transformer. What are the transformer losses and how they can be minimized in a transformed
2. Describe in detail about the different methods of interaction of x – rays and gamma rays with the medium
3. Discuss briefly the various effects of x-ray as they pass through matter

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Alpha decay
5. The use of radioactive nuclides in medicine
6. Artificial radioactivity
7. Inverse square law
8. Structure of the atom
9. X – ray absorption and transmission in body tissues
10. Pre-reading kilovoltmeter
11. Radiation beam quality and intensity
12. Bridge rectifier
13. Radiation absorbed dose and its unit

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

14. Gray
15. Electron volt
16. Isotopes
17. Mass attenuation co – efficient
18. Kerma
19. Fluorescence
20. Eddy current
21. Pair production
22. Voltmeter
23. Linear attenuation co – efficient

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