Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Radiography Degree Examination – May 2016

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

IMAGING TECHNIQUE INCLUDING US / CT/ MRI / NUCLEAR

Q.P. CODE: 2209

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. Describe the principles of gamma camera
2. Define MRI. Mention the sequence of MRI
3. What is constants media. How do you classify mention the adverse reactions of constant media

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

4. MRI artifacts
5. SPECT
6. Multihole collimator
7. HRCT of lungs
8. SHIM coils
9. Fourth generation CT Scanner
10. Half life of radio-active element
11. Ultra sound probes
12. Signal to noise ratio

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

13. Aliasing
14. Larmor frequency
15. Radioactive
16. Modes of ultra sonography
17. Indications of Doppler study
18. Pixel and voxel
19. Tesla
20. C T Motion artifacts
21. Gamma rays
22. Magnetic field lazards

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RADIOGRAPHIC TECHNIQUES – II

Q.P. CODE: 2210

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. Describe about Hysterosalphingography.
2. Describe about myelography.
3. Describe following radiological procedures:
   Air encephalography
   Ventriculography
   Brachography

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

4. Laryngography
5. ERCP
6. Enterocylsis
7. MCV
8. IVP
9. Barium meal double contrast
10. Radiation protection
11. Fluoroscopy
12. MRS
13. List-out four vascular intervention procedures.

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

14. Pressure injector
15. Asepsis
16. Motean artifact
17. Rexel and Voxel
18. Tomography
19. After care for barium studies
20. Volume rendering tools
21. List-out any four indications for IVP.
22. Radioactivity
23. Ten day rule

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III Year B.Sc. Radiography Degree Examination – AUG/SEP 2016

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IMAGING TECHNIQUE INCLUDING US / CT/ MRI / NUCLEAR

Q.P. CODE: 2209

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LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Describe in detail about single photon emission tomography
2. Principles of MDCT
3. MR Spectroscopy

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

4. Second generation of CT Scanner
5. MR angiography
6. Advantages of ultra sound images
7. Image artifacts
8. PET advantages
9. Procedure in C T guided lung biopsy
10. Field of view
11. Xemon gas ionization chambers
12. Profusion imaging

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

13. Diffusion
14. Streak artifacts in CT
15. CT numbers
16. Inverse square law
17. MRCP
18. Renal isotope scanning
19. Piezo electric effect
20. Ultra sound contrast media
21. Contra indication of MRI
22. Color doppler

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