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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Radiography Degree Examination – Feb / Mar 2012

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. Write briefly pulse sequences in MRI
2. Write briefly basic diagnostic aspects in CT scan
3. Interventional procedures in ultrasound scan

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

4. MR image artifacts
5. Radiation protections
6. PET
7. Ultrasound transducer
8. Gadolinium
9. Shim coil and gradient coil
10. Patient positioning in computed tomography
11. Image quality – signal to noise ratio in MRI
12. Specific activity in isotopes

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

13. Spectroscopy
14. CT artificats
15. Image reconstruction in CT
16. B Scan
17. Photo multiplier tube
18. MRI angiography
19. Precautions of handling of radio isotopes
20. CT contrast scans
21. Pressure injectors
22. K Space



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2210_2012_I

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Radiography Degree Examination – Feb / Mar 2012

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

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 Mar**

1. Write in detail about various projections used in chest radiography with indications
2. Digital radiography
3. Beam limiting devices

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

4. Grids
5. Swimmers view
6. Radiography of atlanto – axial joint
7. Skeletal survey
8. Radiography of SI joints
9. Anatomy of shoulder joint
10. Nasal bone fractures
11. Radiation monitoring devices
12. Erect X – ray abdomen
13. Dark adaptation

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

14. Gonadal shield
15. Ball catchers projection
16. High KV technique
17. Radiography of sella
18. Acromio – claviclar joint
19. Orthopantomography
20. Frog leg projection
21. Background radiation
22. Skyline view
23. Dose reduction in pediatric patients

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