Rajiv Gandhi University of Health Sciences, Karnataka

I Year M.Sc. Medical Imaging Technology - 28-May-2024

Radiographic Procedure and Principles of Radiographic Exposure

Q.P. CODE: 9541

Radiographic Procedure and Principles [9541]

Marks: 80 Duration: 200 mins.

1 Explain the production of X-ray in detail ad write a note on theapplication of technical factors to get desirable image quality (10)

2 Differentiate between Barium meal follow through (BMFT) andenteroclysis (10)

3 Write a note on Hysterosalpingography (HSG) (10)

4 Explain radiographic contrast and the factors influencing contrastand density (10)

5 Explain dental radiography in detail. Write a note oninstrumentation of ortho-pantomography (OPG) (10)

6 Write a note on intensifying screen s and cassettes used inconventional radiography (10)

7 Explain pelvimetry in detail and write a note on supplementaryviews of the pelvis (10)

8 Role of radiology in obstructive pathologies of urinary system (10)

Rajiv Gandhi University of Health Sciences, Karnataka

I Year M.Sc Medical Imaging Technology Degree Examination - 30-MAY-2024

INSTRUMENTATION OF CONVENTIONAL X-RAY EQUIPMENTS AND INSTRUMENTATION OF SPECIALIZED

RADIOLOGY EQUIPMENTS

Q.P. CODE: 9542

Instrumentation of Conventional X Ray and Specialized Radiology Equipments [9542]

Marks: 80 Duration: 200 mins.

INSTRUMENTATION OF CONVENTIONAL X RAY EQUIPMENTS A

Answer all the questions.

Your answers should be specific to the questions asked Draw neat, labeled diagrams wherever necessary **Answer All The Questions**

1 Explain tube rating and tube rating charts (10)

2 Main voltage compensation (10)

3 Construction and design of high tension cables (10)

4 Rectification and types of rectifies (10)

5 Exposure timers (10)

6 Portable and mobile equipments (10)

7 Fluoroscopic and radiographic tables (10)

8 Explain the equipments used for cranial and dental radiograph (10)

Rajiv Gandhi University of Health Sciences, Karnataka

I Year M. Sc Medical Imaging Technology Degree Examination - 03JUN24

ADVANCED TECHNIQUE AND INSTRUMENTATION OF ULTRASONOGRAPHY

Q.P. CODE: 9543

Advanced Technique and Instrumentation of Ultrasonography [9543]

Marks: 80 Duration: 200 mins.

ADVANCED TECHNIQUE AND INSTRUMENTATION OF ULTRASON

Answer all the questions.

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

Answer All The Questions

1 Principle and types of doppler (10)

2 Explain the construction of transducers and types of transducers (10)

3 Ultrasound of small parts (10)

4 Ultrasound protocols for abdomen pelvis (10)

5 Ultrasound artifacts (10)

6 Display modes and grey scale imaging (10)

7 Ultrasound contrast media, types and classification (10)

8 Bio-effects and safety consideration in ultrasound (10)

Rajiv Gandhi University of Health Sciences, Karnataka

I Year M.Sc. Medical Imaging Technology Degree Examination - 05JUN2024

ADVANCED TECHNIQUE AND INSTRUMENTATION OF COMPUTED TOMOGRAPHY

Q.P. CODE: 9544

Advanced Technique and Instrumentation of computed Tomography [9544]

Marks: 80 Duration: 200 mins.

ADVANCED TECHNIQUE AND INSTRUMENTATION OF COMPUTED

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

Answer All The Questions

1 Explain isotropic imaging and add a note on noise and temporalresolution. (10)

2 Write in detail about Multi detector CT. (10)

3 Explain anatomy of lungs and add a note on expiratory highresolution CT. (10)

4 Write in detail about single and multislice CT scan. (10)

5 Write in detail about protocol for lower limb angiography. (10)

6 Describe common and specific artefacts in helical CT images. (10)

7 Explain slip ring technology and add a note on electron beam CT. (10)

8 Describe CT perfusion scanning. (10)