Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Imaging Technology Examination – 24-Aug-2020

Time: Three Hours | Max. Marks: 60 Marks

DIAGNOSTIC IMAGING TECHNIQUE (RS3)

Q.P. CODE: 2911

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. CT imaging of lung – patient positioning, indications, CECT and HRCT thorax and pulmonary image reconstruction techniques
2. Write brief note on interventional CT guided procedures.
3. Describe principles of Magnetic resonance imaging. Describe how MRI machine functions.

SHORT ESSAYS (Answer any Five) — 5 x 5 = 25 Marks

4. MR imaging coils
5. Hounsfield unit
6. Radiopharmaceuticals and their uses
7. Data acquisition in CT
8. Sonography of small parts
9. MR spectroscopy
10. CT artefacts

SHORT ANSWERS (Answer any Five) — 5 x 3 = 15 Marks

11. Triple phase CT
12. Specific activity
13. T2 weighted image
14. Principle of PET CT
15. Screening for an MRI
16. Portable ultrasound
17. Ultrasound transducers

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Imaging Technology Examination – 26-Aug-2020

Time: 3 Hours | Max. Marks: 30 Marks

RADIOGRAPHIC TECHNIQUE – I (RS3)

Q.P. Code: 2912

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.
(Note: Both QP Codes 2912 and 2913 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Explain in detail about radiographic projections for Sacro Iliac joint.
2. Supplementary views for chest region

SHORT ESSAYS (Answer any Two) 2 x 5 = 10 Marks

3. Penetrated view with applications
4. Routine radiography of knee joint
5. Macro radiography and its applications

SHORT ANSWERS (Answer any Five) 5 x 2 = 10 Marks

6. Preparations for KUB radiograph
7. Sella Turcica
8. Radiographic views for Little finger
9. Radiographic views for thoracic spine
10. High KV technique
11. Tele Roentgenogram

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Imaging Technology Examination – 26-Aug-2020

Time: 3 Hours | Max. Marks: 30 Marks

RADIOGRAPHIC TECHNIQUE – II (RS3)

Q.P. Code: 2913

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.
(Note: Both QP Codes 2912 and 2913 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Describe Enteroclysis under the following headings:
   a) Indication and contraindication
   b) Preparation of the patient
   c) Procedure
   d) Trolley settings
   e) After care of the patient
2. Describe Hysterosalpingography under the following headings:
   a) Indication and contraindication
   b) Preparation of the patient
   c) Contrast media
   d) Procedure including recommended views
   e) After care of the patient

SHORT ESSAYS (Answer any Two) 2 x 5 = 10 Marks

3. Catheters and guidewires
4. Sialography
5. T – tube cholangiography

SHORT ANSWERS (Answer any Five) 5 x 2 = 10 Marks

6. Contrast media reactions
7. Vesiculography
8. Direct portal venography
9. Phlebography
10. Embolization
11. MCU

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Imaging Technology Examination – 10-Dec-2020

Time: Three Hours | Max. Marks: 60 Marks

DIAGNOSTIC IMAGING TECHNIQUE (RS3)

Q.P. CODE: 2911

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 in detail about principle of CT scan.
2. Briefly explain about CT guided lung biopsy.
3. Briefly explain about safety consideration and quality assurance in MRI.

SHORT ESSAYS (Answer any Five) — 5 x 5 = 25 Marks

4. Data acquisition.
5. Flow techniques in MRI.
6. Modes of Ultrasound.
7. Artifacts in MRI.
8. PET.
9. Doppler.
10. Quality assurance in CT.

SHORT ANSWERS (Answer any Five) — 5 x 3 = 15 Marks

11. Hounsfield units.
12. FLAIR.
13. T2 decay in fat.
14. TM mode.
15. CT number.
16. Define ferromagnetism.
17. Inversion recovery.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Imaging Technology Examination – 14-Dec-2020

Time: 3 Hours | Max. Marks: 30 Marks

RADIOGRAPHIC TECHNIQUE – I (RS3)

Q.P. Code: 2912

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary
(Note: Both QP Codes 2912 and 2913 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Briefly describe skeletal survey and required radiographic views and projections undertaken for the evaluation of metabolic harmonic disorder.
2. Describe care, technique and radiation protection aspects during portable or mobile radiography in particular bedside radiography and pre-operative radiographic procedure.

SHORT ESSAYS (Answer any Two) 2 x 5 = 10 Marks

3. Radiographic techniques in chest radiography
4. Special radiographic views of lumbosacral region
5. Radiographic projections of shoulder girdle

SHORT ANSWERS (Answer any Five) 5 x 2 = 10 Marks

6. Radiographic views of cervical spine.
7. Role of radiographer producing radiographs
8. Radiographic projections of PNS
9. Radiographic view for scapula
10. Radiographic projections of TM joint
11. Radiographic view of mastoid

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III Year B.Sc. Imaging Technology Examination – 14-Dec-2020

Time: 3 Hours | Max. Marks: 30 Marks

RADIOGRAPHIC TECHNIQUE – II (RS3)

Q.P. Code: 2913

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.
(Note: Both QP Codes 2912 and 2913 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Describe in detail about oral cholecystography.
2. Describe all about IVP.

SHORT ESSAYS (Answer any Two) 2 x 5 = 10 Marks

3. ERCP
4. Lithotripsy
5. Lumbar myelography

SHORT ANSWERS (Answer any Five) 5 x 2 = 10 Marks

6. Ventriculography
7. Barium sulphate
8. Forensic radiography
9. Gastrograffin
10. Laryngography
11. OPG

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