Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. Imaging Technology Examination – MAR/APR 2017

Time: Three Hours **Max. Marks: 60 Marks**

DIAGNOSTIC IMAGING TECHNIQUE (RS – II)

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. Write a note on responsibility of a radiographer during radiological procedures and note on adverse drug reactions of contrast media and emergency drugs.
2. Describe any two sequences in MR.
3. Write a note on CT artefacts.

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

4. SPECT
5. CT angiography
6. Functional MRI
7. Write a note on PET
8. Piezoelectric crystal
9. Write note on Doppler.ultrasound.
10. Radioimmuno assay

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

11. Uses of Radio nuclides in medicine
12. Larmour frequency
13. Fat suppression technique
14. Chemical shift artifact
15. Pressure injector
16. Ten day rule
17. Signal to noise ratio

Rajiv Gandhi University of Health Sciences, Karnataka

*****

III year B.Sc. Imaging Technology Examination – APRIL 2017

Time: 3 Hours **Max. Marks: 30 Marks**

Radiographic Technique - I

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. Digital radiography versus computerized radiograph
2. Write in detail procedure, precaution, position of radiographs in neck injury cases.

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

3. Radiography of acromioclavicular joint
4. Invertogram
5. Frog's leg view

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

6. Hand radiography
7. Town's view
8. Schuller's view
9. Submento vertical view
10. Portable x-ray machine
11. Scaphoid view

*****

Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. Imaging Technology Examination – APRIL 2017

Time: 3 Hours **Max. Marks: 30 Marks**

Radiographic Technique - II

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. Discuss in detail the adverse reactions to contrast media and patient management
2. Discuss in detail DSA and it's various applications

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

3. Percutaneous transhepatic cholangiography
4. Hysterosalpingogram
5. Percutaneous lung biopsy

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

6. Lymphangiography
7. Foreign body localization
8. Retrograde Pyelo Ureterography
9. Vesiculography
10. Macroradiography
11. Orbital venography

*****

Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. Imaging Technology Examination – SEP-2017

Time: Three Hours **Max. Marks: 60 Marks**

DIAGNOSTIC IMAGING TECHNIQUE (RS – II)

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. Describe basic principle of MRI.
2. What is transducer? Write neat diagram of transducer and functions of its constituents.
3. What is tomography? Discuss the technology of spiral CT.

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

4. Principles of tracer technique
5. Generations of CT
6. MR angiography
7. Ultra sound artefacts
8. Radio pharmaceutical
9. Radio immune assay
10. Pressure injector

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

11. Renogram
12. CT number
13. K – space
14. Precession
15. CT contrast agents
16. Acoustic coupling agent
17. Resistive index

*****

Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. Imaging Technology Examination – SEP 2017

Time: 3 Hours **Max. Marks: 30 Marks**

Radiographic Technique - I
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. Describe care, technique and radiation protection aspects during portable / mobile radiography in particular bedside radiography / preoperative radiographic procedures.
2. What are the routine and special views used in lumbosacral region? Describe the same.

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

3. Explain various projection for TM joint
4. Radiography of sphenoid sinus
5. Frog leg view

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

6. Tele roentgenogram
7. Open mouth view
8. Apicogram
9. Preparations for KUB radiograph
10. Ball catcher's view
11. Towne's view

*****

Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. Imaging Technology Examination – SEP 2017

Time: 3 Hours **Max. Marks: 30 Marks**

Radiographic Technique - II
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 hysteron-salphingography 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 Barium enema through in adult 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. T tube cholangiogram
4. Seldenger's technique
5. Percutaneous nephrostomy

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

6. Negative contrast media
7. Soft tissue technique
8. Principle of tomography
9. Cerebral angiography
10. Dacryocystography
11. Macro radiography

*****