

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Third Year (Semester-V)

July/August -2019 Examination

B.Sc. Imaging Technology (IMT)

Time : 2.30 Hrs.

[Max. Marks : 80]

Paper – II

Radiographic Techniques

Q.P Code : AHS-112

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. How do you prepare a patient for barium meal follow through? Describe the procedure of barium meal follow through with various techniques.
2. What is CT angiography? What are the precautions taken for the procedure? Mention about the contrast materials used in angiography.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Describe the technique of pulmonary angiography.
4. Principles of spiral CT
5. Barium swallow
6. Hysterosalpingography.
7. Hypotonic Duodenography.
8. Adverse reaction to contrast materials. How do you manage initially?
9. Barium enema.
10. Fistulogram.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Ten day rule.
12. Principle of MRI
13. What are contraindications for MRI examination?
14. Radiopharmaceuticals.
15. What are the emergency equipments necessary in radiologic procedure room?
16. Positive contrast media.
17. Non ionic contrast media.
18. MRI contrast media.
19. Percutaneous catheterization..
20. Double contrast procedures.
21. Barium meal
22. RGU

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Paper – I

Diagnostic Imaging Techniques

Q.P Code : AHS-119

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Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. What are the principles of computed tomography? Mention briefly about the various generations OT CT scanners?
2. Describe the physical principles of medical ultrasound.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Ultrasound Artefacts.
4. Multihole collimator
5. Isotopes
6. What are hounsfield units? Write briefly
7. Pixel and Voxels.
8. Gamma camera
9. T₁ and T₂ weighted images.
10. PACS

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. MR contrast agents.
12. Image reconstruction INCT
13. Precautions of handling radiopharmaceuticals.
14. Gradient coils.
15. Ring artifacts.
16. Tube rating.
17. Gauss and Tesla
18. Duplex scanning
19. Interventional radiology
20. Grey scale imaging
21. Spiral CT
22. MRA (Magnetic Resonance Angiography)

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