

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

September/October -2018 Examination

B.Sc. Imaging Technology (IMT)

Time : 2.30 Hrs.

[Max. Marks : 80]

Paper – I

Diagnostic Imaging Techniques

Q.P Code : AHS-119

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify CT contrast agents. Add a note on the dose, various routes of administration and Management of contrast reactions.
2. Discuss in detail the principle and working of gamma camera.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Artifacts encountered in MR imaging.
4. Magnetic resonance spectroscopy.
5. Slip ring Technology.
6. Precautions while handling radiopharmaceuticals.
7. Cyclotron.
8. Explain about image reconstruction in CT.
9. Inversion recovery sequences.
10. Interventional CT guided Procedures.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Shim coils.
12. Rectilinear scanner.
13. Window level and window width.
14. Signal to noise ratio (NR).
15. Types of collimators.
16. Patient positioning in computed tomography.
17. QA in magnetic resonance imaging.
18. Radioactivity.
19. Structure of atom.
20. Write any three advantages of radioisotope scan.
21. What is low dose CT.
22. Volume rendering.

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Paper – II

Radiographic Techniques-I

Q.P Code : AHS-120

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Describe the various views used in radiography of knee joint.
2. Explain in detail about ten day rule.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Mass Miniature Radiography.
4. Explain Barium Swallow.
5. Discuss about HSG preparation and procedures.
6. Discuss the views used in radiography of foot.
7. Oblique view of mandible.
8. Uses of DSA.
9. Explain the preparation and procedure of barium enema.
10. Explain the air gap technique.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Explain the artifacts of MRI.
12. Explain about Ionic and Non Ionic contrast.
13. Gynaecography.
14. Contrast media reactions.
15. Principles of computed tomography.
16. Radio isotope scanning.
17. Explain about double contrast study.
18. TLD dosimetry.
19. Small Bowel Enema.
20. Explain Stenver's view.
21. Vesiculography.
22. Emergency drugs used in radiology department