

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

December 2013 Examination

B.Sc. Imaging Technology (IMT)

6-12-13

Time : 2.30 Hrs.

Max. Marks : 80]

Paper – II
Radiographic Techniques-II

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. Intravenous Urography (IVU).
2. Magnetic Resonance and Imaging Brain.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Oral Cholecystography.
4. Foreign Body Localisation.
5. Ultrasound Imaging of renal system.
6. Operative Choledochography.
7. Reterograde Pyeloureterography..
8. Peripheral Venography-Lower limb, Upper limb
9. Lumber Myelography.
10. Percutaneous lung biopsy.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Post operative Choledochography-Percutaneous Extraction of Retained Biliary Calculi.
12. Computed Tomography for mass lesion in the Liver.
13. Percutaneous Nephrolithotomy.
14. Lithotripsy.
15. Internal Jugular Venography.
16. Myelography with water soluble and oily contrast media.
17. Fistulography.
18. Dacrocystography.
19. Multiple Radiography.
20. Subtraction Radiography.
21. Radio Isotope Scanning.
22. Lymphography.

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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. Describe piezoelectric effect and types of ultrasound transducers.
2. Describe in detail types of Doppler.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Ultrasound artifacts.
4. Acoustic coupling agent.
5. Discuss types of ultrasound display modes.
6. Intervention techniques.
7. Discuss the documentation in obstetric ultrasound.
8. Discuss recent advances in ultrasound imaging.
9. Describe basic infrastructure of ultrasound room.
10. Describe basic physics of SPECT.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Side effects of ultrasound imaging.
12. Mention ultrasound guided interventional procedures.
13. Inventors of gray scale ultrasound and Doppler.
14. Transducer sterilization.
15. Quality assurance in ultrasound.
16. Safety consideration SPECT.
17. Usage of ultrasound in medicine.
18. Reflection and refraction in ultrasound.
19. Patient preparation and handling in ultrasound imaging
20. What is ultrasound?
21. Discuss acoustic impedance.
22. Discuss interface attenuation.