

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

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. Ultra Sound characteristics.
2. Write essay on Positron Emission Tomography and precautions while handling Radiopharmaceuticals.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Ultra Sound diagnostic procedures.
4. Positron Emission Tomography (PET).
5. Pulse Doppler.
6. Quality assurance of Ultra Sound unit.
7. Spatial resolution.
8. Reflection, refraction.
9. Doppler effect.
10. Radiation Dose.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Transducer – Piezoelectric effect, Construction.
12. Acoustic coupling media
13. Real time colour flow imaging.
14. Safety consideration- radiation dose.
15. Radio immune assay.
16. Scan artefacts in U/S.
17. Acoustic impedance.
18. Transducer sterilization.
19. Amplitude Intensity.
20. Acoustic coupling media.
21. Production of radionuclides.
22. Continuouswave Doppler.

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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. Enumerate indications, contraindications of conventional X-ray mammography. Describe the standard techniques, positioning and variations in normal technique to be adopted in special circumstances.
2. Write on radiation protection in radiology. Describe on responsibility of radiographer during radiological procedures.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Role of hypotonic duodenography.
4. Technique of micturiting cysto urethrogram.
5. Complications in lumbar myelography.
6. Adverse reactions to contrast media and patient management.
7. Color Doppler.
8. HSG.
9. DSA.
10. Sielingers technique.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Oral cholecystography.
12. Small bowel enema.
13. Indications of bronchography.
14. Use of contrast media in IVP.
15. High kilo voltage technique.
16. Catheterization sites and asepsis.
17. Inferior venacavography.
18. Magnetic resonance spectroscopy.
19. CSF rhinorrhea imaging.
20. Hepatic venography
21. MRI in stroke imaging.
22. Gastrograffin enema.

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