

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

Examination May-2013

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. Mention all the imaging modalities you know of for hepato – biliary imaging. Draw and label the anatomy of biliary system.
2. Explain the principles of MRI.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. CT 2D - 3D Image Production.
4. Spiral CT/ Helical CT.
5. MR Image artifacts.
6. Ultra sound scan.
7. Piezoelectric effect.
8. Doppler effect.
9. CT – Numbers.
10. Explain radio activity.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. B Scan.
12. Continuous wave Doppler.
13. Spin echo.
14. Production of radio nuclides.
15. Scan converter.
16. Positron.
17. Q Factor.
18. Liquid helium.
19. Ultra sound gel characteristics.
20. Free induction decay.
21. Acoustic coupling agent.
22. Window level and window width

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

Examination May-2013

B.Sc. Imaging Technology (IMT)

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. What is nuclear medicine? Discuss its role in internal medicine with special reference to various radiopharmaceuticals used in imaging.
2. Additional investigations. Explain (1) Echo cardiogram (2) Doppler

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Non ionic contrast media
4. Transducers
5. MR image artifact
6. Head and Neck angiogram
7. CT myelography
8. Responsibility of radiographer during procedures
9. What is the contrast media
10. Uses of PET scan and advantages of PETscan.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Uses of DSA
12. What is I.V.P? and contra indication
13. What is HSG? How many days after last menstrual period(LMP) HSG can be done
14. What is a small Bowell enema and contra indications
15. Types of X ray
16. What is MCU? Write two contra indications
17. What is Sailo gram? Write the preparation of the
18. Properties of X ray
19. Urograffine-76% uses
20. What is contrast media? Name the different contrast medias?
21. Radiation protection ten day rule
22. Trachea esophageal fistula imaging